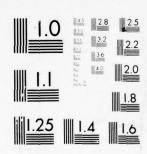


OF

AD A052 132

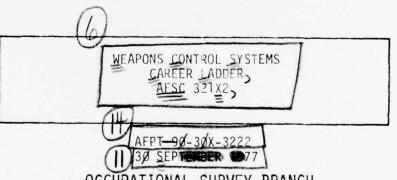


MICROCOPY RESOLUTION TEST CHART
NATIONAL BUREAU OF STANDARDS-1963-4.

OCCUPATIONAL SURVEY REPORT,
ELECTRONIC PRINCIPLES

AD A 052132

AD No.



OCCUPATIONAL SURVEY BRANCH
USAF OCCUPATIONAL MEASUREMENT CENTER
LACKLAND AFB TEXAS 78236

APPROVED FOR PUBLIC RELEASE; DISTRIBUTION UNLIMITED

COPY AVAILABLE TO PERMIT FULLY LECTION

408 889



TABLE OF CONTENTS

	PAGE NUMBER
PREFACE	3
INTRODUCTION	4
DEVELOPMENT OF THE ELECTRONIC PRINCIPLES INVENTORY (EPI)	4
ADMINISTRATION	4
PRESENTATION OF RESULTS	9
APPENDIX	10

ACCESSION	
NTIS	White Section
DDC	Buff Section
UNANNOU	INCED 🗆
JUSTIFICA	
BY	00000
DISTRIBL	UTION/AVAILABILITY CODES
DISTRIBL	UTION/AVAILABILITY CODES AVAIL. and/or SPECIAL
DISTRIBL	UTION/AVAILABILITY CODES AVAIL. and / or SPECIAL
DISTRIBL	UTION/AVAILABILITY CODES AVAIL. and or SPECIAL
DISTRIBL	AVAIL AND OF SPECIAL

PREFACE

This report presents a summary of the results of a detailed Air Force Electronic Principles Survey of the Weapons Control Systems Specialty, AFSC 321X2.

The Electronic Principles Inventory (EPI) was developed by Major Thomas J. O'Connor and Mr. Hendrick W. Ruck and the survey data were analyzed by Captain Jerry M. Barucky. All are members of the Occupational Survey Branch, USAF Occupational Measurement Center, Lackland AFB, Texas.

Computer programs for analyzing the data were designed by Dr. Raymond E. Christal, Occupational and Manpower Research Division, Air Force Human Resources Laboratory (AFHRL), and were written by the Project Analysis and Programming Branch, Computational Sciences Division, AFHRL.

Distribution of this report is made upon request to the USAF Occupational Measurement Center, attention of the Chief, Occupational Survey Branch (OMY), Lackland AFB, Texas 78236.

This report has been reviewed and is approved.

JAMES A. TURNER, JR., Colonel, USAF Commander USAF Occupational Measurement Center WALTER E. DRISKILL, Ph.D. Chief, Occupational Survey Branch USAF Occupational Measurement Center

ELECTRONIC PRINCIPLES OCCUPATIONAL SURVEY REPORT WEAPONS CONTROL SYSTEMS CAREER LADDER AFSC 321X2

INTRODUCTION

This report summarizes the results of the administration of the Electronic Principles Inventory to airmen assigned to Weapons Control Systems Specialty (AFSC 321X2). The data for this report were collected during the period April through June 1977.

This report describes: (1) development and administration of the survey instrument; and (2) electronic principles used by DAFSC 5-skill level personnel both CONUS and overseas and assigned to selected major commands.

DEVELOPMENT OF THE ELECTRONIC PRINCIPLES INVENTORY (EPI)

The EPI was developed by personnel from the Occupational Survey Branch who were well qualified in theoretical physics and electronics, as well as in task analysis and survey development. Over 300 maintenance personnel from SAC, TAC, ADC, MAC, and AFCS participated in the development of the inventory. Representing the five ATC training centers, electronics experts who averaged 12 years of maintenance experience and four years of electronic principles instruction experience spent several weeks refining the EPI. In addition, personnel at the Electrical Engineering Department of the USAF Academy and the Air Force Human Resources Laboratory were consulted during the development of the inventory.

The final version of the EPI used in this survey contained 1,257 items in 62 subject matter areas covering all electronic principles training given at the five ATC technical training centers. Table 1 lists the 62 subject areas.

ADMINISTRATION

The Electronic Principles Inventory was administered by mail to AFSC 32152 airmen worldwide. Responses from 224 individuals represented 13 percent of the total of all AFSC 32152 personnel. Table 2 shows the percentage distribution by major command of the survey incumbents.

TABLE 1
EPI SUBJECT AREAS

SEQUENCE OF SUBJECT AREAS	SUBJECT AREA TITLE	BEGINNING ITEM NUMBER	GPSUM PAGE NUMBER
	MATHEMATICS	A1	2
2	DIRECT CURRENT AND VOLTAGE	A15	2
3	RESISTANCE	A24	2
4	MULTIMETER USES	B52	2
5	ALTERNATING CURRENT	B61	2 2 2 3 4
6	INDUCTORS AND INDUCTIVE	B67	
U	REACTANCE	DO/	4
7	CAPACITORS AND CAPACITIVE	C92	4
	REACTANCE	092	
8	TRANSFORMERS	C128	5 6
9	MAGNETISM		0
10		C171	7 8
	RCL CIRCUITS	D185	8
11	SERIES AND PARALLEL RESONANCE	D229	
10	(TIME CONSTANTS)	2000	10
12	FILTERS	D239	10
13	COUPLING	E261	11
14	SOLDERING	E273	11
15	RELAYS	E294	12
16	MICROPHONES	F314	12
17	SPEAKERS	F327	13
18	OSCILLOSCOPES	F342	13
19	SEMICONDUCTOR DIODES	G354	13
20	TRANSISTORS	G404	15
2·1 22	TRANSISTOR AMPLIFIERS SOLID-STATE SPECIAL PURPOSE	G428	16
	DEVICES	H477	19
23	POWER SUPPLIES	H483	19
24	OSCILLATORS	H512	19
25	MULTIVIBRATORS	1539	20
26	LIMITERS AND CLAMPERS	1555	21
27	ELECTRON TUBES	1565	21
28	ELECTRON TUBE AMPLIFIERS	J609	
	AND CIRCUITS	0003	22
29	SPECIAL PURPOSE ELECTRON	J616	
	TUBES	0010	23
30	HETERODYNING, MODULATION, AND	J632	23
	DEMODULATION	0032	23
31	AM SYSTEMS	K638	23
32	FM SYSTEMS	K666	
32	וויו סוסובויוס	7000	24

TABLE 1 (CONTINUED)

EPI SUBJECT AREAS

SEQUENCE OF SUBJECT AREAS	SUBJECT AREA TITLE	BEGINNING ITEM NUMBER-	GPSUM PAGE NUMBER
33	NUMBERING SYSTEMS LOGIC FUNCTIONS	K685	25
34	LOGIC FUNCTIONS	L695	25
35	BOOLEAN EQUATIONS	L708	26
36	COUNTERS	L733	27
37	TIMING CIRCUITS	M757	27
38	USE OF SIGNAL GENERATORS	M769	28
39	MOTORS AND GENERATORS	M779	28
40	METER MOVEMENTS	N808	29
41	SATURABLE REACTORS AND	N818	
	MAGNETIC AMPLIFIERS		29
42	WAVESHAPING CIRCUITS	N834	30
43	SINGLE SIDEBAND SYSTEMS	0845	30
44	PULSE MODULATION SYSTEMS	0875	31
45	ANTENNAS	0914	32
46	TRANSMISSION LINES	P953	34
47	WAVEGUIDES AND CAVITY	P984	
	RESONATORS		35
48	MICROWAVE AMPLIFIERS AND	P1034	
	OSCILLATORS		37
49	REGISTERS	Q1110	39
50	STORAGE DEVICES	Q1117	40
51	DIGITAL TO ANALOG CONVERTERS	Q1126	40
52	PHANTASTRONS SCHMITT TRIGGERS CABLE FABRICATION	Q1140	41
53	SCHMITT TRIGGERS	R1141	41
54	CABLE FABRICATION	R1144	41
55	INPUT/OUTPUT DEVICES	S1146	41
56	PHOTO SENSITIVE DEVICES	S1149	41
57	SYNCHRONOUS VIBRATIONS	S1150	
50	(CHOPPER CIRCUITS)	71150	41
58	INFRARED	T1159	41
59	LASERS	T1186	42
60	DISPLAY TUBES	T1220	43
61	PROGRAMMING	U1234	43
62	DB AND POWER RATIOS	U1255	44

TABLE 2

COMMAND REPRESENTATION OF SURVEY SAMPLE

Total Assi Total Samp Percent Sa	COMMAND ADC ATC PACAF TAC USAFE OTHERS
Total Assigned - 1613 Total Sampled - 224 Percent Sampled - 13%	32152 PERCENT ASSIGNED
	32152 (All shreds) ENT PERCENT OF SAMPLE 32 10 8 36 10 10 4
94 9%	32152 PERCENT ASSIGNED 1 55 29 21 11
	32152 (Slick) ENT PERCENT OF GNED SAMPLE 1 12 63
336 59 18%	32152A PERCENT P ASSIGNED 97 3
	SAMPLE 90
44 12 27%	3218 PERCENT ASSIGNED 93
	32152C PERCENT PERCENT OF ASSIGNED SAMPLE 93 100

The same of the sa

TABLE 2 (CONTINUED)

COMMAND REPRESENTATION OF SURVEY SAMPLE

Total Assi Total Samp Percent Sa	ADC ATC PACAF TAC USAFE OTHERS	COMMAND
Total Assigned - 44 Total Sampled - 4 Percent Sampled - 9%	1 1 9 1 5 1	PERCENT
	25 75	32152N PERCENT OF SAMPLE
542 62 11%	20 23 48 23	PERCENT ASSIGNED
	21 37 19	32152P PERCENT OF SAMPLE
507 61 12%	1012121	PERCENT ASSIGNED
	16 16 16 10 10 10 10 10 10 10 10 10 10 10 10 10	321520 PERCENT OF SAMPLE
126 18 14%	97	PERCENT ASSIGNED
	- 1 9 6	32152S PERCENT OF SAMPLE

The state of the s

PRESENTATON OF RESULTS

Personnel responded "yes" or "no" to the 1,257 electronic principles questions as related to their present job. A Group Summary (GPSUM) computer printout is provided in the Appendix portion of this report. Page 1 of each (4A, 4B, 4C) GPSUM lists eleven of the thirty-three selected groups identified for this report. Pages 2-44 in each GPSUM show the percentage of the incumbents responding to the EPI items. The computer program results display the percent members answering "yes" to the subject area questions. The reader can locate a specific subject area by referring to the Appendix page number as listed in Table 1. For example, the Transformers area results are given on pages 6-7 of each GPSUM. The percentage of survey respondents indicating use of specific electronic principles ranged from high in areas such as direct current and voltage (p.2) and multimeter uses (pp.3-4) to low in areas such as single sideband systems (pp.30-31) and Lasers (pp. 42-43). Additional AFSC 321X2 data can be obtained upon request to the Chief, Occupational Survey Branch (OMY).

APPENDIX

PCT MBRS RESPONDING .YES' BY SELECTED GRPS

TABULATION OF ELECTRONIC PRINCIPLES UTILIZATION DATA FOR SELECTED GROUPS IN THE 321XZ CAREER FIELD.

REPORTS ON THE FOLLOWING GROUPS MERE REQUESTED

HEMBERS.	MENBERS.	ME MBERS.	BZ MENBERS.	ME HOERS.	MENSERS.	MEMBERS.	HEMBERS.	HEMBERS.	MEMBERS.	ME HBERS.
224	-	3	82	11	22	•	•	7	•	5
			CONTAINING							
2152	ATIONED IN CONUS	ATIONED OVERSEAS	ENED TO TAC	SIGNED TO ADC	SIGNED TO USAFE		ED IN CONUS	TO TAC	D TO ATC	EN DAFSC 32152A
L SHREDS) 3	181 32152 51	181 32152 51	15132152 ASS	ISI 32152 AS	S1 32152 AS	1CK1 32162	1162 STATION	52 ASSIGNED	1162 ASSIGNE	1524
DAFSC (AL	IALL SMRED	CALL SMRED	IALL SHRED	IALL SHRED	IALL SHRED	DAFSC (SL	ISLICKI 32	(\$L1CK) 321	(SLICK) 32	DAFSC 32
AIRHEN	DAPSC	DAFSC	DAPSC (DAFSC	DAFSC	AIRMEN	DAFSC	DAFSC	DAFSC	AIRMEN
466	Z	Z	Z	Z	Z	ALL	Z	Z	ZHY	114
180548	SPC062	SPC053	SPCOS	SPCOSE	5PC054	SP C057	SPC058	090345	SPC061	\$PC043
•	•	•	•		•		•			•
IDENTITY	IDENTITY	IDENTITY	DENTITY	IDENTITY.	IDENTITY	IDENTITY	IDENTITY	IDENTITY	10ENTITY	IDENTITY
SROUP	SROUP	SROUP	GROUP	GROUP	GROUP	40049	GROUP	GROUP	GROUP	GROUP

5PC 056 100 88 2400 5 C 100 88 6445 2 2 2 5 345 100 20 00 200 27 78 6 77 60 62 57 5 C 79 4 GPSHAA PAGE SPC 054 33 5PC 053 8 30 SPC 052 . -0 25.7 5 P C 19 7 0 - 5 -2-6633777587-86027 OF 10.
A1-32 DO YOU USE PUBLICATIONS, SUCH AS A TECHNICAL ORDERS OR MAINTENANCE MANUALS, IN WHICH IT IS NECESSARY FOR YOU TO WULTIPLY OR DIVIDE BY A POWER OF 10 BEFORE YOU CAN APPLY THE INFORMATION FROM THE PUBLICATION IN A USEFUL MAY ALTERS OR OSCILLOSCOPES, IN WHICH IT IS NECESSARY TO AMPLIFY OR ATTENDATE VOLTAGE, RESISTANCE, ETC., BY POMERS DU YOU CHECK OHMIC VALUE OR MESISTORS.
DO YOU REMOVE OR REPLACE RESISTORS.
DO YOU USE OR REFER TO TEMPERATURE COEFFICIENTS FOR ON THE JOB.
A1-03 DO YOU REARRANGE AND SOLVE FORMULAS OR EQUATIONS.
A1-04 UD YOU CALCULATE THE SQUARE ROOT OF A QUANTITY.
A1-05 DO YOU SOLVE FOR UNKNOWN QUANTITIES.
A1-05 DO YOU CONVERT NUMBERS TO LOGARITHMS.
A1-07 DO YOU USE LOGARITHM TABLES IN ANY TYPE OF CALCULATIONS.
A1-08 DO YOU SOLVE QUADRATIC EQUATIONS.
A1-09 DO YOU USE THE NATURAL SYSTEM OF LOGARITHMS.
A1-10 DO YOU USERFORM CALCULATIONS ON VECTOR QUANTITIES.
A1-11 DO YOU WORK MITH TRIGONOMETRIC FUNCTIONS SUCH AS US YOU USE THE TERM NEUTRON.

DO YOU USE THE TERM COULONS.

DO YOU USE THE TERM PROTON.

DO YOU WORK WITH RESISTORS IN YOUR PRESENT JOB.

US YOU INSPECT RESISTORS.

US YOU LEAN RESISTORS. AI-12 DO TOU DETERMINE AREAS OF PLANE FIGURES.
AI-13 DO TOU SOLVE OR USE SINULTANEOUS EQUATIONS.
AI-14 DO TOU SOLVE OR USE PROPORTIONS.
AZ-01 DO TOU USE THE TERM VOLTAGE OR VOLT (VI.
AZ-02 DO TOU USE THE TERM ELECTROMOTIVE FORCE (EMF)
AZ-04 DO TOU USE THE TERM OHM.
AZ-05 DO TOU USE THE TERM OHM. PCT MBRS RESPONDING .YES. BY SELECTED GRPS THE TERM ANDERE. 07-TSK SINE, COSINE, OR TANGENT. TASK GROUP SUMMARY PERCENT MEHBERS PERFORMING 3SO 100 00 12-07 12-07 12-07 42-06 45-09 12-07 42-08 ...

MATHEMAILCS

;

90

001

-

100

245

290 00

200

DIRECT CURRENT AND VOLTAGE

000

* NO #

9 8000

0000

00000

00000

RESISTANCE

000

00000

001 08

00 00

00 8 8

00 88

17

9

62

10

20 29

63

A3-08 DO YOU USE OR REFER TO RESISTOR SYMBOLS SUCH AS FIXED RESISTOR SYMBOLS SUCH AS FIXED RESISTOR SYMBOLS.

A3-09 DO YOU LOENTIFY OR CLASSIFY THE RESISTORS YOU WORK WITH AS CAREON, FIXED WIRE, SLIDE TAP, RHEUSTAT, OR

RESISTORS ON ANY TASKS YOU PERFORM.

A3-06

43-05

A3-10 30 YOU USE RESISTOR COLOR CODES WHICH INDICATE OHNIC

VALUE OF RESISTANCE.

PUTENTIONETER.

33

* 3

100

20

8 8

8 1

8 2

25

9

29

19

42

- 5000 0 0 5 5 5

000

SPSHAA PAGE 3

The state of the s

TASK GNOUP SUBMARY
PERCENT MEMBERS PERFORMING

																			MULTIMETER USE		O'BECKER OF BECKER					
SPC 0 + 3	31	^	9	*	7	27	34	25	1,	25	36	22	7.	37	27	36	27	**	88	• •	S	ø	2 %	S	9.0	
240	100	0.0	001	100	100	100	100	100	001	100	100	100	100	100	100	100	100	100	100	000	0	0	000	20	80	
040	0	0	0	100	0	0	90	0	0	0	50	0	0	0	0	90	0	0	100	00	0	0	000		100	
5 P C	75	?	75	100	75	7.5		3	75	7.	60	15	• 3	15	7.5	8	7.5	:	100	100	7	0	000	2	88	
5PC 057	75	3	75	100	75	75	æ	•	75	75	60	75	6 3	75	75	60	7.5	63	100	000	-	0	000	- 13	8	
5 pc	*	ď	*	8 2	7	27	36	-	7	27	7	23	27	7	27	7	27	27	96	200		0	200	3	100	
5PC 055		=	-	69	40	35	÷	3,1	1	32	 *	58	90	3	35	4 2	34	ä	06	•	-	-	000	*	87	
90	4 0	12	•	7.8	32	88	33	54	30	27	30	22	50	9	27	30	22	70	69	• 50	*	'n	2 8	*	60	
5PC 053	2	40	=	1.6	35	22	24	32	35	67	30	•	77	35	22	32	•	7.5	44	. 6	•	0	9 6	•	44	
5 P C 052	*	5	7	7.8	45	35	7	52	7	*	;	30	78	3	35	•	32	28	88	0	· ·	•	0 0	•	0	-
5PC 051	90	-	12	"	7	33	38	72	•	32	2	*	23	39	33	3.6	30	41	8	* 6	م ا	•	; ;	w	•	
DY-TSK	A 34 -34-11 DO YOU USE RESISTOR COLOR CODES WHICH INDICATE	A 35 A3 HICH INDICATE A 35 A3 LINE DATE	A 30 A3-13 DO YOU MAKE DECISIONS IN WHICH YOU MUST DETERMINE HOW TO DE MORE BATTERIES MUST BE CONNECTED TOGETHER TO	THE SCHEMATIC STHBOLS	APPRECION OF THE PRIEST FOR TOWN OF THE TO	A 39 ASTRONA DO YOU CALCULATE TOTAL CURRENT FOR SERIES RESISTIVE	A 40 A317 DO CALCULATE INDIVIDUAL VOLTAGE DROPS FOR SERIES	ALL ASSISTING TOUR CALCULATE POWER DISSIPATION FOR SERIES	A 42 A3-19 DO YOU CALCULATE TOTAL RESISTANCE FOR SERIES PARALLEL	ASSISTING CIRCUITS. 49 43-20 DO YOU CALCULATE TOTAL CURRENT FOR SERIES PARALLEL	A 44 A3-21 DO YOU CALCULATE INDIVIDUAL VOLTAGE DROPS FOR SERIES	PANALLEL MESISTIVE CIRCUITS. A 45 A3-22 DO YOU CALCULATE INDIVIDUAL BRANCH CURRENTS FOR SERIES PARALLE, RESISTIVE CIRCUITS.	A 46 A3-23 DO YOU CALCULATE POWER DISSIPATION FOR SERIES	47 43-24 DO YOU CALCULATE TOTAL RESISTANCE FOR PARALLEL	RESISTIVE CIRCUITS. W. *3-25 DO YOU CALCULATE TOTAL CURRENT FOR PARALLEL RESISTIVE.	. 49 3-26 DO YOU CALCULATE INDIVIDUAL VOLTAGE DROPS FOR	ANABLE MESISTIVE CINCUITS.	A STANDARD WESTSTIVE CINCUITS. A STANDARD OF PARALLEL A STANDARD OF PARALLEL	52 -1-01 DO YOU	STATES OF THE ST	25 -1-04 00 400	56 81-05 DO YOU	N SO NITO OF YOU DREADING CORRESSOR	20 30 40-15 65	B 60 E1-09 DO YOU READ SCHEMATICS.	-

PLT HBRS RESPONDING TEST BY SELECTED GRPS

	9 N I
	PERFORMING
HHARY	PER
SUR	REMBERS
900	KER
3	
A SK	PERCE
-	0

AT TEGRAL	CURRENT	Maria Sarrata Con									4	-	****	tod M	P 44	box of					EVCI ND		111	ndn										
9	063	29	78	69		3.8	58	20	12	6	7 0		2 2	1.2	0 9	• •	•		7	•	-	01		•	9	•	a	•	5	•	•	,	77	20.
SPC	061	100	000	100	100	100	100	0	0	0	0	0 0	000	0.	001	200	2		000		20	100		100	100	100		0	100	001	00			
SPC	000	20	9.0	20	90	20	001	20	0	0	0 0	0	20	0	0 0	o o	•		0		,	0		0	၁	0	c	>	20	0	0		9 0	80
365	058	9	60 60	9	90	88	9.0	38	0	36	7		150	20	6.	9 3	0	;	7.5		2	75		15	6.3	63	. :	•	15	7	15		2 .	75
9	057	80	8 9	88	8	8	8 8	38	a	38		0 7	15	9 0	•	9 4	9		7.5		•	75		75	63	6	1		75	-	12		0 4	25
SPC	050	2.0	7,	1.0	11	27	g.	9.0	27	32			9	•	•	_ 1	•		n	•	•	•		•	۰	•	0		1.6	•	0			
	9 5	6.3	73	•	83	30	38	5	20	25	20 1	-	15	17	0	a o 3			=		•	=		7	=	-		=	15	=	::	;	2,	25
200	054	95	- 4	•		27	5	28	•	23	90	2 6	2 4 5	*	ب	. 1	-		'n		n	7		8	•	•	•	•	=	•	•	:	75	22
200	053	24	- 6	62		22	9	+	=	30		2 5	24	40	un (n u	n		~		•	5		•	s	'n		n	=	-		:	7	30
345	052	5	4 4	89	8	33	20	32	-	78	2 5		27	0	~ :	- :	:		-	•	•	12		•	13	12	. :	2	6-	7	-2	:	4 -	35
200	051	6.3	78	67	6	31	20	33		7.8	7.	, ,	27	•	=:	2 :	2		7		:	=		0	12	=		•	11	-	1.5	:	7 -	2.5
PERCENT SENDERS PERFORMING	DY=TSK	8 61 82-61 00 YOU USE OR HEFER TO THE TERM EFFECTIVE VOLTAGE (RMS).	6 62 82-62 DG YOU USE OR REFER TO THE TERM PEAK TO PEAK VOLTAGE.	64 82-04 DO YOU USE OR REFER TO THE TERM MAVE LENGTHS	32-05 DG YOU USE OR REFER TO THE TERM	SE SZ-US DO YOU USE OF REFER TO THE TERM	67 83-01 DO YOU WORK WITH INDUCTORS O	68 83-02 UN YOU INSPECT INDUCTORS.	83-03 00 YOU CLEAN INDUCTOR	70 83-04 DG YOU ADJUST INDUCTORS.	71 83-05 DO YOU REMOVE OR REPLAC	72 93-02 00 100 03E 08	74 83-08 DO YOU USE OR REFER TO	75 83-09 DU YOU USE OR REFER TO	74 B3-10 DO YOU USE OR REFER TO HYSTERESIS LOSS IN INDUCTORS.	TO BUT I DO TOU USE UR REFER TO FOUR CONTROL FUNDS	INDUCTANCE IS PROPORTIONAL TO THE SGUARE	TURNS OF THE COIL.	B 79 BZ-13 DO YOU USE ON REFER TO THE GENERAL RULE THAT THE IN-	SECTIONAL AREA OF THE CORE.	INDUCTANCE OF A COIL IS INVERSELY PROPORTIONAL TO ITS	OR REFER TO	INDUCTANCE OF A COIL IS DIRECTLY	8 82 82-16 DO YOU CALCULATE INDUCTANCE FOR PARTICULAR INDUCTORS	USING FORMULAS. 6 83 43-17 DO YOU CALCULATE THE TOTAL INDUCTANCE FOR INDUCTANCE	ET SEMIES.	In Parallel.	TS.	REFER TO	7 8	43-22 UC YOU USE OR REFER TO THE	AND THE REACTANCE IS DIRECTLY PROPORTIONAL	SANGLOCK HALE MADE DOL OF STANK AND TO SALES	

REACTANCE	SAPACITIVE
GNA	SADTIDA9A;

PCT MBRS RESPONDING .VES' BY SELECTED GRPS

BANA APRES

いくというというないということにいいかいかい

1

PERCENT MEMBERS PERFORMING

SPC	67 48 59 67 62 68 88 88 50 100	53 57 54 52 59 63 63 50	29 32 27 34 32 25 25	20 50 50	55 57 54 54 59 75 76 50	43 54 44 42 64 13 13 0	16 17 8 15 15 14 63 63 0 80		46 45 46 39 38 59 75 75 50 100	49 43 40 46 56 75 75 50	0 63 63	100 BD BT DT TT DT TT	24 21 23 27 88 88 50 1	20 16 18 15 23 50 50 0	73 68 86	61 62 52 65 59 88 86 50		11 10 16 11 10 14 13 13 0 20	9 10 3 6 6 6 63 63 0 100		9 11 0 6 7 5 6, 63 0 100	10 11 3 4 6 9 75 75 0 100		6 11 11	16 17 11 11 14 14 75 75 0 100	15 16 11 11 10 14 63 63 0 100	22 24 14 13 21 18 Be an Bo 100		19 20 14 11 20 18 75 75 0 100	15 17 8 10 14 18 75 75 0 100		14 16 3 12 10 9 63 63 0 100
15 X87-70	DHK MITH CAPACITORS OR CIRCUITS CONTAINING	PO TOTAL TOT	94 CI-03 DO YOU CLEAN CAPACITORS.	AS CITED TO TOU POUCH CAPACITORS	97 CI-US DO YOU DISCHARGE CAPACITORS.	98 CI-07 DO YOU REMOVE OR REPLACE CAPACITORS.	C 99 (1-08 DO YOU USE ON REPER TO DISTRIBUTED CAPACITANCE.	A DIELECTRIC.	C 101 CI-10 DO YOU USE OR REFER TO FARADS, MICROFARADS, OR	CI-11 DO YOU USE OR REFER TO CAPACITANCE.	103 (1-12 DO YOU USE OR REFER TO DIELECTRIC CONSTANT	TO SEE OF SEPERAL TO ROSPING TO THE ABILING OF	105 CI-14 DO YOU USE OR REFER TO CAPACITIVE REACTANCE	104 CI-IS DO YOU USE OR REFER TO CAPACITOR COLOR COUES	IN DC CIRCUITS	109 CI-18 DO 100 MORK WITH CAPACITORS IN CIRCUITS WITH BOTH DC	AND AC	C 110 CI-19 DO YOU NORK WITH CAPACITORS IN DON'T REKENBER ANICH	YOU CAL	CAPACITORS USIN	C 112 C1-21 DO YOU USE OR REFER TO THE GENERAL RULE THAT CAPACITANCE OF A CAPACITOR IS DIRECTLY PROPORTIONAL TO THE	OR REFER TO THE GENERAL RULE THAT A CAPACITOR IS INVERSELY PROPORTIONAL TO	THE DIECECTAL THICKNESS		OU CALCULATE THE TOTAL CAPACITANCE OF CAPACITORS	LCULATE THE TOTAL CAPACITANCE OF CAPACITORS	THERENT	DOES NOT FLOW THROUGH CAPACITORS, IT ONLY APPEARS TO DO SO	DO YOU USE OR REFER TO THE GENERAL RULE THAT CURRENT	USE ON MEYER TO THE GENERAL MOLE TEAT	FREDERICH	OU CALCULATE CAPACITIVE REACTANCE

いくいいとはないないということにない

TASK GROUP SURMARY PERCENT MEMBERS PERFORMING											
X81-10	SPC 8	SPC S 052 0	SPC SPC 053 054	380	3 05 6	386	5PC 058	SPC 000	SPC 061	260	
121 CI-30 00 YOU WORK WITH ROTOR-STATOR (VARIABLE) CAPACITORS 122 CI-31 UO YOU WORK WITH COMPRESSION (TRIMHER) CAPACITORS 123 CI-33 OO YOU WORK WITH COMPRESSION (TRIMHER) CAPACITORS	777	729	32 32 34 24 1	30 42	4 4 4	25.5		900	0 7 6	2 7 3	
CI-33 DO YOU WORK WITH PAPER (FIXED)	3						38	000		75	
125 CI-34 DO YOU WORK MITH MICA (FIXED) CAPACITORS 124 CI-35 DO YOU WORK WITH CERAMIC (FIXED) CAPACITORS	7.							00	0001	37	
CLEAG DO YOU MORK MITH DON'T REMEMBER MY	54	~						20	20	•	
CZ-01 00 YOU	3			8	2			20	80	42	-
124 C2-02 DO 400 INSPECT TAANSFORMENS	20			2 2 2 2 2	so ~			3 0	9		TRANSFORMERS
C2-04 00 100	3.2		. ~	~	2 4			00	9	202	
C2-05 00 TOU THOUBLESHOOT TRANSFORMERS	7	6 7		Ŧ:	S			20	90	7:	MONEY OF THE PARTY
133 CA-US OF THE REMOVE OR REPLACE CONFLETE TRANSFORMERS.	• ~			•		50	0	0	0 0	7 "	
THE PRIMARY MINDING		•						•			
CEN 1010		0	n		_	•	•	•	200	n	
C2-09 DD YOU USE THE SYMBOL FOR MUTUAL INDUCTANCE, M	.	٠.	ın i		.0 :	52.	5.2	9 9	•	.	
MORKING MITH TRANSFORMENS	2	:	n			•	,	•	001		-
138 CZ-11 DO YOU CALCULATE TURNS RATIOS FOR TRANSFORMERS USING	*_	1.1	7	-	•	5 75	7.5	9	100	10	
139 CZ-12 DO YOU REFER TO REFLECTED IMPEDANCE WHEN WORKING WITH	٠	=	0	•		9	50	0	0	,	
TAANSTORMERS			,								
FORMERS	-	=	-	n	œ	•	3	•	100	A	
CZ-14 30 YOU NORK WITH AUTOTRANSFORM	50		_	7	~			0	90	1.5	
CZ-15 DO TOU WORK WITH POWER	22			3 (0 0	080	*	
CZ-17 DG YOU WORK WITH RADIO	37.0	- 00 /	F 74	3 6		75	75	00	000	22	
WITH DON'T RENEMBER	-13	-1	19 2	-	7			20	20	12	-
146 C2-19 DO YOU CHECK TRANSFORMERS FOR OPEN MINDINGS BY	0 7	8	57 4		49 2	63	6.3	0	90	4.6	
HEASCHING RESISTANCE	9	2	5.1.3	7	5	6	6.3	0	90	31	
MEASURING RESISTANCE	*			•	•	•					
	?			0	2		0	2	•	,	
119 C2-22 SO YOU MEASURE RESISTANCE OF TRANSFORMER AINDINGS TO	12	12	6.	1 1	8 32	98	38	0	0.9	91	
2012											
ISO C2-23 DO TOU MEASURE OUTPUT VOLTAGE OF TRANSFORMERS TO DETERMINE MHETHER A TRANSFORMER MAS A STEP-UP OR STEP-	23	23	30 2	0	4 32	. 20	80	0	09	-	-
DOWN TURNS RATIO 151 C2-24 DO YOU REFER TO BASIC TRANSFORMER SCHEMATIC SYNBOLS	57	26	5 65	2005	89	80	8	50	100	ī	,
TOR TRANSFORMERS											

こうかん こうかん はない あいかいかいかいかいかい

TASK GROUP SUNNANY

PLT HBRS RESPONDING TEST BY SELECTED GRPS

CPSHUA PAGE

TASK GROUP SUMMARY PERCENT MEMBERS PERFORMING

RCL CIRCUITS 9 1 ~ * 6 ! -• . 7.5 -* --* • --= = Ξ 5 P C • --3 8 -• -= -C 179 C3-19 DE YOU USE OR REFER TO DOMAIN THEORY OF MAGNETISM C 180 C3-10 DO YOU USE OR REFER TO MAGNETIC INDUCTION C 181 C3-11 DO YOU USE OR REFER TO FLUX DERSITY C 182 C3-12 DO YOU USE OR REFER TO THE GENERAL RULE THAT FOR MAGNETIC POLES, LIKE POLES REPEL AND UNLIKE POLES ATTRACT C 183 C3-13 DO YOU USE THE LEFT HAND THUMB RULE TO FIND THE DIRECTION OF MAGNETIC FIELDS ABOUT STRAIGHT WIRES DUCKRING WITH RCL CIRCUITS

DUCKRING WITH RCL CIRCUITS D 199 DISS DO YOU USE OR REFER TO SELECTIVITY WHEN MORKING WITH PILL CIRCUITS D 190 D1-G6 DO TOU USE OR REPLR TO TANGENT WHEN WORKING WITH RCL CIRCUITS
C 191 D1-07 DO TOU USE OR REPER TO WATTS WHEN WORKING WITH RCL £ DESTRUCTING WITH RELECTROUITS
DESTRUCTION OF YOU USE OF REFER TO MALF POWER POINTS AMEN WENTY OF YOU USE OF REFER TO BANDPASS REGION AMEN WORKING D 189 DI-05 DO YOU USE OR REFER TO COSINE WHEN WORKING MITH PCL U 192 DI-OB DO YOU USE OR REFER TO TRUE POWER (PT) WHEN WORKING D 203 D1-19 DO YOU USE OF REFER TO CIRCUIT & WHEN WORKING WITH 0 194 01-14 DO YOU USE OR REFER TO BANDWIDTH WHEN MORKING WITH MCKKING WITH RCL CIRCUITS D 188 D1-34 DO YOU USE OR REFER TO SINE WHEN WORKING WITH RCL D 186 DI-UZ DO YOU USE OR REFER TO VECTORS WHEN MORKING MITH D 187 D1-03 JU YOU USE OR REFER TO PYTHAGOREAN THEOREM WHEN MITH RCL CIRCUITS
D 193 D1-09 DO YOU USE ON REFER TO MAXIMUM POWER (PM) WHEN 0 200 61-16 DC 700 USE OR REFER TO RESONANT FREQUENCY WHEN THE WELL CIRCUITS OF TO RESONANT CIRCUITS OMEN OF A CURRENT CARRYING COLL
30 YOU WORK WITH RC. LR. RCL CIRCUITS IN YOUR DY-15K PURE WITH RCL CIRCUITS CIRCUITS CIRCUITS CIACUITS CIRCUITS PRESENT POLE

-

TASK GROUP SURMANT

SPC	28 28 27 18 24 32 75 75 50 100 15	7 8 3 2 6 0 50 50 0 80	7 7 3 0 6 0 63 63 0 100	10 11 8 5 10 5 63 63 0 100	7 7 3 1 6 0 63 63 0 100	10 10 8 5 6 5 63 63 0 100	7 7 5 2 6 0 50 50 0 80	8 7 8 2 6 5 38 38 0 60	7 7 5 2 10 0 38 36 0 60	7 7 5 2 7 0 38 38 0 60	8 9 8 2 7 5 63 63 0 100	7 7 8 1 6 5 50 50 0 80	7 7 5 4 6 0 50 50 0 80	11 11 11 6 10 9 63 63 0 100	29 38 20 35 36 86 86 50 1	12 21 27 13 13 0	16 30 11 18 27 13 13	0	11 17 8 5 10 9 63 63 0 100	13 14 8 9 14 5 75 75 U 100 10	12 12 11 6 11 7 63 63 0 100 10	13 15 5 6 13 5 63 63 0 100	10 11 8 5 8 9 63 63 0 100	11 12 5 5 10 5 75 75 0 100 10
DY=75K	D 204 D1-20 DO YOU USE OR REPER TO TANK CINCUITS WHEN WORKING	0 205 DI-21 DO YOU DETERMINE VALUES OF TRIGONOMETRIC FUNCTIONS USING FORMULAS	206 DI-22 DO TOU DRAW VOLTAGE, CURKENT, OR IMPEDANCE VECTOR	207 SI-23 DO YOU CALCULATE TOTAL IMPEDANCE FOR CAPACITIVE	U 208 01-24 DO YOU CALCULATE PHASE ANGLES BETWEEN IMPEDANCE AND RESISTANCE IN CAPACITIVE CIRCUITS	1 209 01-25 DO YOU CALCULATE TOTAL IMPEDANCE FOR SERIES RCL	U 210 01-26 DO YOU CALCULATE IMPEDANCE ANGLES FOR SERIES RCL	U 211 D1-27 DO YOU CALCULATE APPARENT POWER (PA) FOR SERIES RCL	U 212 01-20 DO YOU CALCULATE TRUE POWER (PT) FOR SERIES ACL	D 213 D1-20 DO YOU CALCULATE POWER FACTORS (FF) FOR SERIES ACL	0 214 D1-30 DO YOU CALCULATE TOTAL CURRENT FOR PARALLEL RCL	D 215 DI-31 DO YOU CALCULATE IMPEDANCE ANGLES FOR PARALLEL RCL		U 217 01-33 DO YOU CALCULATE TOTAL IMPEDANCE FOR PARALLEL RCL	UI-34 DO YOU CHECK CAPACITORS USING	DI-12 DO YOU CHECK C	2 221 01-37 DO YOU CHECK INDUCTORS USING SUBSTITUTION	222 01-38 DO 100	E RESONANT FREQUENCIES	TOU USE OR REFER	FARGUENCY FOR SERIES RCL CIRCUITS 2.225 LI-4) DO YOU USE OR REFER TO THE GENERAL RULE THAT LINE CURRENT IS HINIMUM AND IMPEDANCE MAXIMUM AT RESONANT	TREGORACT FOR PARALLEL RIL LINCOILS 226 ULA 200 VOU USE OR REFER TO THE GENERAL RULE THAT HALF POURS POINTS AS AT 30 PROFESS OF THE PERK CLIBERAL VALUE	SEFER TO THE GENERAL RULE	U 228 DI-44 DO YOU DETERMINE HOW CHANGES IN FREQUENCY, RESISTANCE , CAPACITANCE, OR INDUCTANCE WILL AFFECT CURRENT OR PHASE ANGLES FOR RCL CIRCUITS

GPSH4A PAGE 10

TASK GROUP SUMMARY
PERCENT MEMBERS PERFORMING

PCT MBAS RESPONDING VES' BY SELECTASE GROUP SURMARY PERCENT MEMBERS PERFORMING

		COUPLING	OF SALES OF SALES									000000000000000000000000000000000000000	SULUERIAG	30 T No. of Column									
3.0	2.0	22	•	1.7	22	-1	11	==	1.2		*	• 5	2.5			. 2	53	===	- 5	::	? ?	15	::
340	00	000	100	100	001	00	201	000	001	001	200	7	7 .		0 0	9 0	9	9 0	9		? ?	20	0 0
340	00	00	0	0	0	0	0	90	0	00	100	100	000	001	000	200	0.5	000	20	001	00	100	20
200	**	75	15	15	15	3	15	75	7.5	75	250	6.3	33	63	69	2 7	2.	7 9	200	35	3	0	38
5PC 087	38	75	75	75	75	63	7.	7.5	75	1,5	35	63	6,3	6.0	63		0	6 6	200	5;		20	200
950	2.	4 4 0 0	7	7	4	•	45	77	7	7 9	9	99	9 4	-	40				-	8 6		-	* *
5 P C	25	700	88	27	30	23	27	20	-	77	83	6 9	69	8 2	62	0 0	5.0	6 6		7.3		62	2 2
245	2 5	28	*	87	23	*	22	* 2	**	50	85	62	9 7	8	70	83	3	7 4	3.8	7.3	2 -2	0	6 8
5P.C 053	₹°		35	3.6	38	30	38	32	30	32	8	2.6	9 6 6	0 0	57	0 00	5.	7 7	32	7.3	7	7.	5 4 2
SPC 052	~*	55	35	35	32	=	30	310	30	35	8	19	- 9	4 8	9	7 %	9 6	75	*	52		9	2 4 7
SPC 051	2,	**	š	35	33	=	32	9.0	30	32	-	•	63		•	1 6	2.0	4 4	7	- 4		6,9	2 20
	F BASIC CIRCUIT MULAS TO DETERMINE REQUINED FOR SPECIFIC	EVICES IN YOUR PRESENT JOB C DIAGRAMS AND RELATE TO NTS ASSOCIATED WITH MC	S AND RELATE TO	AND RELATE TO	HAVE COMPONENTS	COMPONENTS	HAVE COMPONENTS	TS UPLED	UPLED	UITS	E ING	DAMECTIONS					•		USING ERASERS			USING VACUUM DESOLDERING	COMPONENTS
A21-15K	U 25Y 03-21 DON'T MEMEMBER WHICH TYPE OF BAS C 260 03-22 DO YOU USE EQUATIONS ON FORMULAS CAPACITANCE OR INDUCTANCE VALUES REQU	YOU WORK WITH COUPLING D YOU IDENTIFY ON SCHEMATI	L 263 E1-03 DO YOU IDENTIFY ON SCHEMATIC DIAGRAMS AND THE ACTUAL CIRCUITRY THE COMPONENTS ASSOCIATED THE COMPONENTS ASSOCIATED	E 264 E1-04 DO YOU IDENTIFY ON SCHEMATIC DIAGRAMS AND THE ACTUAL CIRCUITRY THE COMPONENTS ASSOCIATED THE COMPONENTS ASSOCIATED	E 265 El-US DO VOU TROUBLESMOOT CIRCUITS MAICH MAY JAILLY PREFICE OF COURSINE	E 250 EI-06 DO TOUTERESHOOT CIRCUITS WHICH HAVE MAICH PREPORT INPRODUCE COUPLING	S WHICH		E 270 EL-10 DO YOU WORK WITH CAPACITIVE-INDUCTIVE COUPLED	271 EL-11 DO YOU WORK WITH TRANSFORMER		I 274 L2-02 DO YOU SELECT TYPE OF SOLDER TO USE	22-03 DO YOU ADD FLUX TO CONNECTI	-2-US DE YOU STRIP INSULATION FROM	EX-06 DO YOU CONNECT OR DISCONNECT	. 280 52-08 DO YOU CUT WIRES ON LEADS	281 62-09 DO YOU FILE OR SHAPE SOLDE	- 282 - 2-10 DO YOU TIN SOLDERING IRON TIPS	2-12 DO YOU CLEAN ELECTRICAL SURFACES	265 62-13 00 700	287 E2-15 DG YOU DESOLDER CONNECTIONS	TOOLS	E 249 E2-17 DO YOU CUT COMPONENT LEADS TO REHOVE E 245 E2-14 DO YOU CRUSH COMPONENTS FOR REHOVAL

PCT MBRS RESPONDING OYES' BY SELECTED GRPS

CPSHAA PAGE 12

いるとして、 というに 大き 大い というごうこうできる

TASK SHOUP SUMMARY PERCENT MEMBERS PERFORMING

PERCELT REFERRENCEMENG												
DY-15K	SPC	250	SPC S	SPC S	SPC 5	20 950	SPC 51	SPC 51	345 346	200 1	u n	-
	•			;						•		
	::	::	• :	• •								
SOLDER PASSIVE COMPONENTS S	;	77	22		32	7.2	202		05			
CAPACITORS ON PRINTED CIRCUIT BOARDS	1							1				1
E 244 E2-22 DO TOU SOLDER ACTIVE CONTONENTS SUCH AS SOLID-STATE DIODES OF TRANSISTORS ON PRINTED CIRCUIT BOARDS	7,	•	6	?	-	2				-		
295 E3-01 DO YOU WORK WITH RELAYS ON YOUR PRE	1.	11	:	7.8	72	- • •	00	1 001	1001	9 001	RELAYS	
00	•	12	=	•	28		25	52	0	2 0		
E3-03 00 YOU	27	7.	32	3.6		32	2	•		-	Contraction of the last	,
298 E3-04 GC YOU INSPECT RELAYS	25	55	21	2.0	•			-		* 0*	•	
299 E3-05 DO YOU REHOVE OR REPLACE COMPLETE	20	22	•	-		11						
300 63-04 00 400	=;	- :	=;	= :	T .		57	52		0		
301 63-07 50 100	::	2 4			2.5	::	7	-	9			
SOL THE STATE OF T				, ,		27	7 0					
FRANCE TO YOU PERFORM TAKES ON	: •						25			20		
AND REALT DO YOU PERFORM TASKS ON MELLY	•		٠ =	•	-		30					
304 E3-12 DO YOU				•		0	24	9	0	20		
E3-13 DO YOU PERFORM TASKS ON RELAY SPR		1	•	•	. «	•	25	5	0	20		
308 E3-14 DO YOU USE OR REFER TO SINGLE POL	7	. 5	0 0	62	0 th	-	-	100	-	30		
(SPST), NORMALLY OPER (NO) SCHEMATIC SYMBOLS FOR												0
E 309 E3-15 DO YOU USE OR REFER TO SINGLE POLE, SINGLE THROW		59	65	29	29	1 65	1001	1001	100	100 54		
(SPST), NORMALLY CLOSED INC) SCHEMATIC SYMBOLS						- 1						
E 310 E3-14 DO YOU USE OR REFER TO SINGLE POLE, DOUBLE THROW	63	9	21	63	28	5.0	88	99	20 100	0 51		
(SPDT) SCHEMATIC SYMBOLS FOR RELAYS	17	*	6.9	0.4	20	6	8	98	50 100	63		
(OPOT) SCHEMATIC SYMBOLS FOR RELAYS	;											
	63	63	29	5.4	29		88	88	20 100	95 0		
A STICULAR TOUR TRANSPORT IN TRANSPORT TO THE FIRST TRANSPORT TRANSPORT TO THE FIRST TRANSPORT	7	0	4	9	8		7.	3.6	001	64		
	:		•									1
F 314 F1-01 II TOUR PRESENT JOB, DO YOU PERFORM ANY TASKS DEALING	1	1	3	1	8	9	25	52	05	0		_
		,	•		,							
AND THE AN ACCOUNT	• ^						•				MICROPHONES	
317 F1-14 CC YOU				۰ ۵	n ec		25.					
FI-US OF YOU TROUBLESHOOT AS FAR AS CHECKING	*	s	0		•		13	•				
COMME											4 4 4 4 4 4 4 4 4 4 4 4 4 4 4 4 4 4 4 4	
PAATS OR												
ANTICIPATION OF THE PROPERTY O	~ ~	٠,	0 :	- ^		5	•	•		0 0		
SALE FILES OF WHICH AND APPLICATION OF THE PROPERTY	• •		o c				2					
322 F1-09 CC YOU	. ~		0 0	. ~							. ~	
323 F1-10 to You	~	•	0	-		0	13	•			~	
324 FI-11 06 YOU PERFORM TASKS ON CRYSTAL M	~	r	0	~		,	13	•	0	0	_	
FI-12 DO TOU PERFORM TASKS ON DYNAMIC M	~	7	0	-	•	0	c	0	0	0	~	
F 326 FI-13 O YOU PERFORM TASKS ON VELOCITY RIBLON MICROPHONES	7	7	0	-	2	0	0	0		0	7	1

TASK GROUP SUMMARY PERCENT MEMBERS PERFORMING

		SPEAKERS																		OSCILLOSCOPES		AND THE PARTY																	L SON		INIC	35
3.5	,	-	~	•	1		,		• •	7	• •	• ^	. ~		•	•	•	9 2	5		8 5		9 4		0.9		7			•	9 9	3.2	:			. •		0		•	7	
0 1 90	0,	20	0	0	50		:	•		9 6	2	9 0	3	20	20	20	100	001	100		100		000	200	0		0,		001	0	001	09	,	9		0 0		00			001	
200	20	0	0	20	0			0 0	0 0	0 0	0 0	0	0	0	0	0	001	100	00		001			20	0		0		050	2	0.5	20	9	0 0		00		0		,	•	
SPC 058	3.	52	=	20	52				•	2		, ,	35		-		8.8	201	001		001		0 0	25			36		00 G	C	9 8	63		2 -	. 7	36	,	20		•	2	
SP.C.	3.8	25	13	20	52		,	45	٠ د	9:	2	2	25	0 -	-		8	100	100		100		0	2 2			36		æ :	0	8.8	6,3		0 -		5 6	6	5			:	
5 p C	0	0	0	0	0			o c)	0 0	0 0	9 0	0 0	0	0	•	11	11		85		4 1	25	4		23		M 1	•	7.3	7.3	•	2	:			00		•		
5.60	æ	•	*	1	10			-		۰,	٠,	7 .	٠,	-		. ~	86		8	,	9 8		0,	0 0	11		æ		87		8 9	-	;			7 -	:	-	?		1.1	
5 P C	2	-	0	1	-		,	5 C	3 3	o c	0 0	0 0	0 0	0	0	0	19	:	2		2		•	2 0		,	23		9 1	0	10	20		9 4	1	, ,		•			-	
SPC 053	0	0	0	0	0		•	0 0	0	0 0	0 0	0 0	o c	0 0	0	0	5 60	0	-		7.3		0 0	3.5	7		22		1 8	•	10	99	5	0 1		, -	,	•			•	
5 P C	1	•	~	•	٠		•	-	•	~ ~	• •		. ~	• •	•	•	7	7.8	6	,		;	2,		1		38	1	4	•	00	52		A C		•		•		•	•	
5PC 051	٠	•	~	•	S			٠-	, .	- ^	• -		• ^	. ~	~	~	7 8	70	•	,	18	;		• •	10		35	,	4 :		16	24	9	; ;		9	•	13	:	•	-	
07-75K		F2-02 DO TOU	12-03 DO YOU	F2-U4 DC YOU OPERATE SPEAKERS	R AS CHECKING	TIONS BUT DO NOT TROUBLE	PARTS OF SPEAKERS	TOTAL TARGET OF TOTAL STRUCTURE OF THE S	THE STATE OF THE S	TO SENOYE ON METLACE	STATE TO THE PROPERTY AND THE PARTY OF THE P	TO YOU DESCRIPTION AND TAKE OF THE PARTY OF	F2-12 DO YOU PERSONN ANY TARKS ON SPLAKER	110 FA-13 DO YOU PERFORM ANY TASKS ON SPEAKER PERF	FR-14 DO YOU PERFORM ANY TASKS ON SPEAKER ELECTROMAGNETS	F2-15 DO YOU PERFORM ANY TASKS ON SPEAKER	FI-OI DO YOU USE USCILLOSCOPES IN YOUR PRESENT JOB	O YOU USE OSCILLUSCOPES		ADCUSTMENTS	1 345 F3-04 DO YOU USE OSCILLOSCOPES TO TROUBLESHOOT ELECTRONIC	SELIOUSIO	THE PRINCE OF THE USE OSCILLOSCOPES TO MEASURE PREDUENCY	THE STATE OF THE CALL CALL CALL TO SEE AND CALL CALL CALL CALL CALL CALL CALL CAL	THE FRANCE DO YOU USE OSCILLOSCOPES TO OBSERVE SIGNALS WHILE	UTILIZING ATTENUATOR PROBES	1 15 13-09 DO YOU USE OSCILLOSCOPES TO MAKE FREGUENCY OR TIME	MEASUREMENTS USING DELAY TIME HULTIPLIERS	13-10 DO TOU USE OSCILLOSCOPES TO MEASURE AC	AFTER FIRST AD JUSTING THE GAIN AT	+ 3-12 DC YOU USE OSCILLOSCOPES TO MEASURE DC VOLTAGE	354 61-01 03 YOU HORK WITH SEMICONDUCTOR DIODES	400	REMOVE OF DEPLY	NO	SECTION TO USE ENERGY LEVEL DIAG	20010	TOU USE PN JUNCTION DIADE CHARACTERISTIC	TUGETHER WITH VALUES OF FORWAND AND REVERSE BIAS	TO COMPUTE FORMARD OR REVERSE LIAS RESISTANCE	C 350 SITUS OF THE COMPOSE PORTAND ON REVENUE BIAN RESISTANCE FOR	

PCT MBRS RESPONDING .YES' BY SELECTED GRPS

TASK GROUP SUNNARY PERCENT HENGERS PERFORMING

		UY=15K	051	250	053	0.54	055 055	0.50	0.00	050	000	190	0
•	361 61-	41-08 DO YOU USE OR REFER TO THE SENERAL RULE THAT	35	34	÷	54	27	55	15	18	20	100	-
•	362 61-	OFFORENCE SUCTOR STORES	9	*	*	3.6	38	0.5			90	001	~
•	363 61-	THEIR PHYSICAL APPEARANCE G1=10 DO YOU MEFER TO OR DO YOU DETERMINE THE GENERAL SPEECT, OF DORING ON THERENT FLOW	2	2	•	^	1	•	:	63	0	001	•
•	364 61-	~	33	3	£ 3	5.4	23	2.	75	15	90	001	-
	365 61-	GI-12 DO YOU USE OF REFER TO DIODE COLOR CODING	\$\$	25	27	7 7	23	23		* 0	90	001	40 4
, ,	•	IN ORBIT AROUND A NUCLEUS			0	•	•	· ·	9	0.0	0	9	, ,
9	368 61-	ELECTRON IN ORBIT AROUND A NUCLEUS GI-15 DO YOU USE OR REFER TO DIODE NUMBERING SYSTEM, SUCH	37	*	*	11	32	2.5	63	5	•	90	-
•	369 61-	AS IN SOU USE OR REFER TO KINETIC ENERGY OF AN ELECTRON MOVING IN DOBS.	۵	•	0	7	•	Δ	09	05	0	9	
•	370 61-	GI-LIAN TOU USE OR REFER TO POTENTIAL ENERGY OF AN	•	-	0	7	7	v	20	20	0	0.0	5
9	371 61-	2 2	36	*	?	23	30	;	15	7.5	90	100	20
•	372 41-	8 0	,	•	0	7	•	s.	6,3	63	٥	9.0	^
•	373 61-	FARTICULAR SHELL OF DEBIT 61-20 DO FOU USE OF REFER TO PERMISSIBLE ENERGY LEVELS OF	,	•	0	~	•	•	7.5	15	0	001	•
9	374 61-	AT UTBILLION SELECTION SELECT TO FORBIDDEN ENERGY LEVELS OF AN OPENITY OF SELECTIONS	80	•	0	7	•	Δ	7.5	2.2	0	001	-
9	375 61-	61-22 OF YOU USE OR REFER TO VALENCE ELECTRONS (THOSE IN	30	•	0	2	•	v	7.5	15	0	100	1
,	376 61-	GIAC DO TOU USE OR REFER TO ATOMIC NUMBER (TOTAL NUMBER OF	•	1	0	~	•	'n	0.5	0 \$	0	0.9	S
•	377 61-	GI-24 OF TOUR STANDS ON THE DIODE WHICH	\$	4	43	3.0	*	20	9 6	15 00	20	100	24
9	-19 HTE	GI-25 OF YOU NEED TO KNOW WHICH MATERIALS ARE USED IN THE	=	=	•	,	9	v	05	90	0	0.0	5
•	379 61-	CIENTS OF RES	77	7	7	1.1	01	;	7.5	52	90	001	~
•	19 081	GILVE TO TOUR OF OR REFER TO PR JUNCTION DIODE CHARLCTERISTIC CURVES, SUCH AS VOLTAGE - CURRENT PRINTING OF ATRICTURE BETANDED OF THIS TO IDENTIFY	=	=	Ξ	•	•	2	:	3	09	0	~
9	19 186	GI-28 OF YOU DETERMINE WHETHER PN JUNCTION DIODES ARE FORWARD OF ABVERSE BIASED WHEN YOU READ OR INTERPRET CIRCUIT DIAGRAMS.	*	35	7	90	23	\$	•	0	90	001	7
•	382 GI-	~	٠	0	6 0	'n		•	;	3	٥	100	S

PCT HBRS RESPONDING TYEST BY SELECTED GRPS

TASK GROUP SUMMARY PERCENT HEMBERS PERFORMING

2 PC	•	•	•	·	01	•	•		•	•	•	•	r	15	•	7	•	•	•	•	32	10 TRANSISTORS	17.	11	
S 245	100	00	0.8	001	100	100	0.0	00	00	00	00	100	100	0.0	100	0,	0.6	080	0.9	001	00		000		
2000	0	0	0	0	0	0	0	00		0	0	0	0	0	0	0	0	0	•	0	50 1		20 5	20 5	
S 29 C S	?	6.3	05	Ç,	7	6.3	20	75	:		6.3		63	0 50	6 3	5.2	20	50	3.8	7.5	98	13	75	7.5	
245	63	6.	20	6,3	63			75		;	6,3	.3	63	9.0	63	25	50	05	3.8	1.5	88	2	75	75	
SPC 056	ď	•	*	a	•	a	a	55	'n	s	Δ.	•	w	23	Δ	30	٠	•	6	23	8 9 4		4 50	7	
5°C 055	-	•	-	•	æ	•	-	e	· -	-	-	•	r	c	,	20	0	80	,	=	35	88	35	88	
250	*	so.	-	-	,		-	==	-	-	-	-	-	22	•	30	•	s	•	٠	55	*	35	33	
5 P.C 0 5 3	s	•	s	٥	ø	c	0	==	. ~	r	^	S	0	<u>r</u>	0	30	2	s	\$	S	5.4	2.4	51	7	
5 PC 0 5 2	•	0	1	^	=	^	1	• •		•	7	•	^	2.6	٠	20	=	2	0.7		55	38	3.4	37	
SPC 051	æ	0	1	•	0	۰	•		•	•	•	œ	۰	5.4	1	7.7	0.1	٠	٥	•	55	+	7 7	*	
X2T-YU	6 383 c1-30 DO YOU USE OR REFER TO FORBIDDEN BAND IN	G USE CITED OF YOUR WATER TO CONDUCTION BAND IN	G 385 SI-32 DO YOU USE OR REFER TO COVALENT BONDING IN	G SP6 ST-33 DO YOU USE ON RETER TO ELECTRON-HOLE PAIR CREATED IN	6 387 61-34 OU TOU USE OR REFER TO ELECTRON FLOW OR HOLE FLOW IN	G 388 GI-35 GO USE OR REFER TO DONOR IMPURITY IN	6 383 61-35 DO YOU USE OR REFER TO ACCEPTOR IMPURITY IN	6 390 GI-37 OO YOU USE OR REFER TO P-TYPE SEMICONDUCTOR MATERIAL 6 391 GI-38 DO YOU USE OR REFER TO N-TYPE SEMICONDUCTOR MATERIAL	392 41-39 00 YOU USE OR REFER TO HAJORITY CARRIERS IN	SEMICONDUCTORS G 399 GI-40 DO YOU USE OR REFER TO MINORITY CARRIERS IN STAIL OUTUCTORS	G 394 GI-41 DO YOU USE OR REFER TO JUNCTION RECOMBINATION IN SEMICONDUCTORS	4 375 41-42 DO YOU USE ON REFER TO DEPLETION REGION IN	6 394 GI-43 DO YOU USE OR REFER TO RELATIONSHIP BETWEEN BARRIER	G 347 ALL-44 DO YOU USE OF REFER TO THE 10:1 BACK TO FRONT	G 198 SITTED TO TOUR DIODES G 198 SITTED TO TOUR DIODES G 198 SITTED TO TOUR TOUR TOUR TOUR TOUR TOUR TOUR T	6 399 31-46 DO YOU USE ON HEFER TO DIODE SUBSTITUTION	S 430 ST-47 DO YOU USE OR REFER TO MAXIMUM AVERAGE FORWARD	COMMENT DIODE RATINGS G 47 61-48 DC YOU USE OR REFER TO PEAK RECURRENT FORMARD CURMENT	G 452 ST-47 DO YOU USE OF REFER TO MAXIMUM SURGE CURRENT DIODE	G 403 01-50 CC YOU USE ON REFER TO PEAK REVERSE (INVERSE) VOLTAGE	6 404 62-01 DO YOU WORK WITH TRANSISTORS IN YOUR PRESENT JOB.	406 62-03 DE TOU REMOVE OR REPLACE TRANSI	6 407 62-54 BU YOU CHECK TRANSISTORS USING AN INSTRUMENT G 408 62-05 BU YOU USE OR REPER TO EMITTER - BASE (EB) FORWARD	ECTOR - BAS	TESTS THE TENSORERE

PCT MBRS RESPONDING .YES. BY SELECTED GRPS

4

GPSH4A PAGE

TASK GROUP SUMMARY PERCENT MEMBERS PERFORMING

SPC SPC SPC SPC SPC SPC SPC GS	27 41 75 76 50 100 15	11 10 75 75 50 100 10	10 * 43 43 50 80 10	20 23 75 75 50 100 10	13 9 63 63 0 100 7	38 64 88 88 50 100 27	21 27 38 38 0 60 6	11 18 63 63 0 100 10	18 36 86 88 50 100 10	10 9 75 75 0 100 5	8 9 43 43 0 100 3	63 63 0 100	000	00 00 00 00 00 00 00 00 00 00 00 00 00		3	36 25 25 0 40 24	20 50 50 60	32 13 13 50 0	3.	18 75 75	10 • •3 •3 0 100 5
345	*	2	15	27	7	1 1 0	23	^	•	٠	•	• •	۲.	۰ •	9 5		1	~0	20	1	•	~
SPC 053	7	=	=	27	•	55	12	•	0.	=	s		~	7 -	35.0		300	32	35	32	•	so.
SPC 082	37	20	•	12	11	# # #	25	<u>.</u>	23	-	15	2 =	2.	. 0	3 6		7 6	50	52	•	•	=
5 PC	9.5	•	60	27	<u>•</u>	4 R 0 0	56	•	5	2	=	0.0	• •	0 00	37		27	52	3.0	6	•	2
07-75K	6 410 62-07 DO YOU USE OR REFER TO ENITTER - COLLECTOR (EC.)	ANNUAL OF THE ANNUAL OF THE PARTY AND THE PARTY OF THE PA	BIASING AFFECT	CALLS GARACIEN MIDIA OF THE CULTERIOR F DASK CORF. LONG ALIS GARLO DO YOU USE OR REPER TO THE PAYSICAL SIZE OF THE	KAGE C	200	G 417 G2414 DO VOU USE OR REFER TO TRANSISTOR SUBSTITUTION	USE OR REFER TO THE GENERAL RULE THE BASE CURRENT IS IS NORMALLY SIGNIFIC. N THE EMITTER CURRENT IE (USUALLY IS SIGNI	G 419 52-16 DO YOU USE THE INFORMATION THAT THE EFFECT OF EMITTER BASE VOLTAGE ON BASE CURRENT IS THE CONTROLLING FACTOR FOR TRANSISTORS.	G 420 G2-17 DO TOU USE THE GENERAL RULE THAT LEAKAGE CURRENT (1CBD) IN A TRANSISTOR INCREASES AS TEMPERATURE INCREASES	USE OR REFER TO TRANS	6 422 62-19 DO YOU USE OR REFER TO BETA TRANSISTOR GAINS	424 62-21 JO YOU USE OR REFER TO GAMMA TRANSISTOR GAIN	425 GZ=ZZ DG TUU CALCULATE BETA TRA 424 GZ=Z DG TOU CALCULATE ALPHA TR	G2-24 DO YOU CALCULATE GAMMA TR	PRESENT JOB	G 124 G1-G2 GG TGC ALTER OR ADJUST TRANSISTOR AND INTERS	431 63-04 DO YOU TROUBLESHOOT TO THE AMPLIF	433 63-06 00 100	434 63-U7 DO YOU REMOVE OR REPLACE AMPLIFIER COMPONENTS	G 435 63-08 DC YOU USE OR REFER TO (COMMON ENTITER) THE CHANGE IN COLLECTOR CURRENT WHICH RESULTS FROM A CHANGE IN BASE	G 436 63-09 DO YOU USE OR REFER TO (COMMON ENITTER) THE CALCULATIONS NECESSARY TO MEASURE THE SPECIFIC CHANGE IN COLLECTOR CURRENT WHICH RESULTS FROM A SPECIFIC CHANGE IN BASE CURRENT

PCT MBRS RESPONDING OYES' BY SELECTED GRPS TASK GROUP SUMMARY PERCENT HENBERS PERFORMING

	UN-TSK	SPC SPC 051 052	5 PC	SPC 054	5°C 055	5 pc 0 5 b	5 C 0 5 7	S 8 50	SPC 9	S 245	5PC 063
,	437 63-10 DO YOU USE OR REFER TO (COMMON EMITTER) THE CHANGE IN COLLECTOR VOLTAGE WHICH RESULTS FROM A CHANGE IN BASE	2.	•	s	2	30	15	3.5	05	100	1
,		•	v.	*	0	u	:	:	0	100	v
13	BASE CURRENT 439 GS-12 DO FOU USE OR REFER TO (COMMON EMITTER) THE CHANGE IN BASE CHRENT LIFTED BASELTE FROM AN IMPURISHMEN	91 91	9 .	•	. 3	23	75	7.5	20	100	00
,	5	•	6	•	•	۰	?	5,	0	100	~
,	DO YOU USE THE	s.	0	~	-	0	7	5 4	0	001	~
.2	COACHLINE ON A INANSISION CHARACTERISISIC CORRESPOND TO THE COERTING POINT OF TAXABLE COERT	01	9	S	•	*	6 9	6.3	0	100	S
19	443 63-60 DO FOUNDATE THE SPECIFIC QUIESCENT POINT FOR A	•	0	2	•	2	3.8	3.6	o	0	7
.7	THE STATE DO FOUNDATION VOLTAGE GAIN USED IN THE COMMON	23 22	17	0	27		15	7.5	0	100	17
.9		17 16	* 7	4	1.7	*.	6.3	63	o	0	*.
.0	YOU MEASURE	17 17	9 -	۰	<u>c</u>	•	75	7.5	0	100	11
9	HAT 43-20 DO TOU CALCULATE THE VOLTAGE GAIN FOR SPECIFIC TRANSISTORS USING A FORMULA THAT IS, DO YOU DIVIDE THE CHANGE IN MASS-EMITTER VOLTAGE INTO THE CHANGE THE BASE COLLECTOR		=	~	*	Δ	:	2	n n	001	~
9	W- W	٠	-	N	,	Δ	7.5	32	2	00	~
	1449 GDMKENT TO DETERMINE THE COMPREN GAIN THANSISTOR USING A FORMULA THAT IS, DO YOU MULTIPLY THE CURPENT GAIN TIMES THE VOLTAGE GAIN TO DETERMINE THE	,	8	-	6	0	?	9	5	001	'n
9	450 63-23 DO YOU NEED TO KHOW THAT HORE COLLECTOR CURRENT IS GENERATED WITH LESS COLLECTOR VOLTAGE AS TEMPERATURE INCREASES (THIS AFFECTS THE STATIC OPERATING POINT C93 OF		•	~	¢	a	3	20	3	0 4	~
,	THE TRANSLIGHT OF THE STATIC OPERATING POINT CRO OF A TOLL COLOUR CHOIL THE STATIC OPERATING POINT CRO OF A	,	3	-	3	э	52	52	0	0 *	N
9	452 43-25 00 YOU DENTIFY ON SCHEMENTS DISCRETE TO THE ACTOR CHIEF ON SCHEMENTS ASSOCIATED WITH THE COMPONENTS ASSOCIATED WITH THE COMPONENTS ASSOCIATED WITH	17 16	22	•		23		ç	0	100	•
	TY ON SCHE	2	1 22	~	Ξ	53	3	ç	•	100	S

TASK GROUP SUNNARY PERCENT MEMBENS PERFORMING

	200	SPC	SPC	260	SPC	5 PC	5 PC	3 60	000	240	360
07-18K	150	052	053	- 50	560						•
	<u>.</u>	•	:	•	01	•	90	9	0	80	-
THERTISTUS STABILIZATION 63-28 DO TOU IDENTIFY ON SCHEMATIC DIAGRAMS AND RELATE TO THE ACTUAL CIPCUITRY THE COMPONENTS ASSOCIATED WITH	1.1	<u> </u>	22	'n	<u> </u>	27	05	20	0	0	_
- a	•	5	22	so.	2	22	3 5	90	0	0	•
FERTINE BIAS DIOUE STABLELEATION 63-30 DO YOU IDENTIFY ON SCHEMATIC DIAGRAMS AND RELATE TO FE ACTUAL CIRCUITRY THE COMPONENTS ASSOCIATED WITH DARRES DIOUE STABLELEATION	2	Ξ	•	~	6	23	*	3.6	0	0	1
	\$0	•	24	0	40	23	63	6 3	20	0 8	13
63-32 DO YOU TROUBLESHOOT CIRCUITS WHICH HAVE COMPONENTS	•	1.1	**	^	9	13	3.6	3.8	0.5	0	12
	•	•	•	•	9		90	20	20	0	0
ESHOOT	07	•	11	01	90	2.7	0.5	0	20	0	12
ESHOOT CI	50	9	11	0	6	27	•	63	20	09	0
DO YOU TROUBLESHOOT CIRCUITS WHICH MAVE COMPONENTS	91	2	22	7	2	23	53	52	20	20	•
12	70	•	54	1	23	-	0,	90	0	0.	15
	23	7	30	1	27	27	•	5	0	0.8	-
	7	0.2	27	1	25			90	20	001	-
DOG YOU IDENTIFY PHASE DISTORTION FOR TRANSISTOR	20	0.2	•	٠	54	*	a)	9 8	50	100	- 5
	•	•	•	٠	54	•	-	6,	0	0	17
S >	•	1.	23	•	7	23	•	•	0	0	12
5 2 2	Ξ	=	Ξ	~	^	<u>.</u>	:	3	5	100	•
DOUGH TO DETERMINE THE CLASS OF OPERATION FOR PIECES IN JAMES TO TROUBLESHOT AMPLETER CIRCUITS	*	2	•	ď	-	•	3.	15	•	00	,
	- 2 -	- 7 -	35	•••	125		25.5	3 4 5 6	000	900	27.0
113 10 YOU TROUBLESHOOT OR REPAIR COMPOUND-CONNECTED FIEMS	•	•	22	٠		2	:	7	80	9	-
######################################	DO YOU TROUBLESHOOT CIRCUITS WHICH HAVE COMPONEN PERFORM REVERSE BISS DIODE STABILIZATION PERFORM DOUBLE DIODE STABILIZATION DO YOU IDENTIFY AMPLITUDE DISTORTION FOR TRANSIS DO YOU TROUBLESHOOT TRANSISTOR CIRCUITS TO FIND S OF AMPLITUDE DISTORTION DO YOU IDENTIFY PHASE DISTORTION FOR TRANSISTOR TITS DO YOU DENTIFY PREQUENCY DISTORTION FOR TRANSISTOR TO YOU DENTIFY PREQUENCY DISTORTION FOR TRANSISTOR TITS DO YOU TROUBLESHOOT TRANSISTOR CIRCUITS TO FIND S OF PHASE DISTORTION DO YOU TROUBLESHOOT TRANSISTOR CIRCUITS TO FIND S OF PHASE DISTORTION DO YOU TROUBLESHOOT TRANSISTOR CIRCUITS TO FIND S OF FREQUENCY DISTORTION DO YOU TROUBLESHOOT TRANSISTOR CIRCUITS TO FIND S OF FREQUENCY DISTORTION DO YOU TROUBLESHOOT OR REPAIR POSH-PULL AMPLIFIE CO YOU TROUBLESHOOT OR REPAIR POSH-PULL AMPLIFIE DO YOU TROUBLESHOOT OR REPAIR COMPOUND-CONNECTED FIERS IN TROUBLESHOOT OR REPAIR COMPOUND-CONNECTED FIERS	ESHOOT CIRCUITS WHICH HAVE COMPONENTS RSE BIAS DIODE STABILIZATION LE DOIDOL STABILIZATION LE DOIDOL STABILIZATION FY AMPLITUDE DISTORTION FOR TRANSISTOR FY AMPLITUDE DISTORTION FOR TRANSISTOR ESHOOT TRANSISTOR CIRCUITS TO FIND THE ESHOOT OR REPAIR PURHABLE FEECTS ON THE ESHOOT OR REPAIR COMPLEMENTARY SYMMETRY ESHOOT OR REPAIR COMPLEMENTARY SYMMETRY ESHOOT OR REPAIR COMPLEMENTARY SYMMETRY	ESHOOT CIRCUITS WHICH HAVE COMPONENTS SES BIAS DIODE STABILIZATION LE DIODE STABILIZATION FY AMPLITUDE DISTORTION FOR TRANSISTOR ESHOOT TRANSISTOR CIRCUITS TO FIND THE ESHOOT OR REPAIR PARAPHASE AMPLIFIERS ESHOOT OR REPAIR COMPOUND-CONNECTED ESHOOT OR REPAIR COMPLEMENTARY SYMMETRY ESHOOT OR SERVICE COMPLEMENTARY SYM	ESHOOT CIRCUITS WHICH HAVE COMPONENTS REE BIAS DIODE STABILIZATION LE DIODE STABILIZATION FY AMPLITUDE DISTORTION FOR TRANSISTOR ESHOOT TRANSISTOR CIRCUITS TO FIND THE EDISTORTION FY PREQUENCY DISTORTION FOR TRANSISTOR FY PHASE DISTORTION FOR TRANSISTOR ESHOOT TRANSISTOR CIRCUITS TO FIND THE ESHOOT OR REPAIR PARAPHASE AMPLIFIERS ESHOOT OR REPAIR PARAPHASE AMPLIFIERS ESHOOT OR REPAIR COMPOUND-CONNECTED 19 19	ESHOOT CIRCUITS WHICH HAVE COMPONENTS ESHOOT CIRCUITS WHICH HAVE COMPONENTS ESHOOT CIRCUITS WHICH HAVE COMPONENTS ILE DIDDE STABILIZATION FY AMPLITUDE DISTORTION FOR TRANSISTOR ESHOOT TRANSISTOR CIRCUITS TO FIND THE ESHOOT OR REPAIR PARAPHASE AMPLIFIERS ESHOOT OR REPAIR PURHAPHASE AMPLIFIERS ESHOOT OR REPAIR COMPOUND—CONNECTED ESHOOT OR REPAIR COMPOUND—CONNECTED ESHOOT OR REPAIR COMPOUND—CONNECTED 19 22 ESHOOT OR REPAIR COMPOUND—CONNECTED 19 19 22 ESHOOT OR REPAIR COMPOUND—CONNECTED 19 19 22	ESHOOT CIRCUITS WHICH HAVE COMPONENTS 20 18 27 10 85 ESHOOT CIRCUITS WHICH HAVE COMPONENTS 15 13 22 7 LE DIODE STABILIZATION FOR TRANSISTOR 20 19 24 7 FY AMPLITUDE DISTORTION FOR TRANSISTOR 20 19 24 7 FY AMPLITUDE DISTORTION FOR TRANSISTOR 21 20 27 7 FY PREQUENCY DISTORTION FOR TRANSISTOR 20 20 19 9 FY FREQUENCY DISTORTION FOR TRANSISTOR 20 20 19 9 FY PRASE DISTORTION FOR TRANSISTOR 19 17 27 5 FY PHASE DISTORTION FOR TRANSISTOR 19 17 27 5 FY PHASE DISTORTION FOR TRANSISTOR 19 17 27 5 FY PHASE DISTORTION FOR TRANSISTOR 19 11 11 11 11 2 CHANGING ENTITER RESISTANCE FOR THE 19 13 16 5 FERSION THE CLASS OF OPERATION FOR TRANSISTOR CIRCUITS FOR THE CLASS OF OPERATION FOR TRANSISTOR CIRCUITS AMPLIFIERS 22 6 ESHOOT OR REPAIR PURHABLE AMPLIFIERS 22 27 35 9 ESHOOT OR REPAIR FUSHMENTARY SYMMETRY 15 14 22 6 ESHOOT OR REPAIR COMPOUND-CONNECTED 19 19 22 9	ESHOOT CIRCUITS WHICH HAVE COMPONENTS REE BLAS DIODE STABLILIZATION LE DIODE STABLILIZATION FY AMPLITUDE DISTORTION FOR TRANSISTOR ESHOOT TRANSISTOR CIRCUITS TO FIND THE ESHOOT OR REPAIR PARAPHASE AMPLIFIERS ESHOOT OR REPAIR PARAPHASE AMPLIFIERS ESHOOT OR REPAIR COMPOUND—CONNECTED ESHOOT OR REPAIR COMPLEMENTARY SYMMETRY ESHOOT OF REPAIR SOUTH STATUS SYMMETRY ESHOOT OF REPAIR SOUTH STATUS SYMMETRY ESHOOT OF STATUS SOUTH STATUS SYMMETRY ESHOO	ESHOOT CIRCUITS WHICH HAVE COMPONENTS ESHOOT CIRCUITS WHICH HAVE COMPONENTS ESHOOT CIRCUITS WHICH HAVE COMPONENTS ESHOOT TREALS STABILIZATION FY AMPLITUDE DISTORTION FOR TRANSISTOR ESHOOT TRANSISTOR CIRCUITS TO FIND THE ESHOOT OR REPAIR PARAPHASE AMPLIFIERS ESHOOT OR REPAIR PORMETRY SYMMETRY ESHOOT OR REPAIR COMPLEMENTARY SYMMETRY ESHOOT OR REPAIR SOLVER STATEMENTARY	ESHOOT CIRCUITS WHICH HAVE COMPONENTS 20 18 27 10 18 27 62 REE BIAS DIODE STABILIZATION RESHOOT CIRCUITS WHICH HAVE COMPONENTS LE DIODE STABILIZATION FY AMPLITUDE DISTORTION FOR TRANSISTOR E DISTORTION FY REQUENCY DISTORTION FOR TRANSISTOR E DISTORTION FY PREQUENCY DISTORTION FOR TRANSISTOR E DISTORTION FY PREQUENCY DISTORTION FOR TRANSISTOR E DISTORTION FY PREQUENCY DISTORTION FOR TRANSISTOR E SHOOT TRANSISTOR CIRCUITS TO FIND THE E SHOOT TRANSISTOR CIRCUITS E SHOOT OR REPAIR PARAMHASE AMPLIFIERS E SHOOT OR REPAIR COMPOUND—CONNECTED 19 7 24 14 63 20 27 7 25 18 88 14 13 18 27 25 15 27 14 63 16 15 6 24 17 63 17 11 11 11 2 7 11 11 11 2 7 1 14 18 10 10 10 10 10 10 10 10 10 10 10 10 10	ESHOOT CIRCUITS WHICH HAVE COMPONENTS 20 18 27 10 18 27 63 63 KS SEE BIAS DIODE STABILIZATION LE DIODE STABILIZATION FY AMPLITUDE DISTORTION FOR TRANSISTOR E DISTORTION FOR TRANSISTOR E SHOOT TRANSISTOR CIRCUITS TO FIND THE E DISTORTION FOR TRANSISTOR E SHOOT TRANSISTOR CIRCUITS TO FIND THE E SHOOT OR REPAIR PARAPHASE AMPLIFIERS E SHOOT OR REPAIR PUSH-PULL AMPLIFIERS E SHOOT OR REPAIR COMPOUND-CONNECTED 19 18 22 6 24 19 55 56 E SHOOT OR REPAIR COMPOUND-CONNECTED 19 18 22 6 13 7 7 7 8 75 E SHOOT OR REPAIR COMPOUND-CONNECTED 19 18 22 7 19 63 E SHOOT OR REPAIR COMPOUND-CONNECTED 19 18 22 7 19 63 E SHOOT OR REPAIR COMPOUND-CONNECTED 19 18 22 7 19 63 E SHOOT OR REPAIR COMPOUND-CONNECTED 19 18 22 7 19 63 E SHOOT OR REPAIR COMPOUND-CONNECTED 19 18 22 7 19 63 E SHOOT OR REPAIR COMPOUND-CONNECTED 19 18 22 7 19 63 E SHOOT OR REPAIR COMPOUND-CONNECTED 19 18 22 7 19 63 E SHOOT OR REPAIR COMPOUND-CONNECTED 19 18 22 7 19 63 E SHOOT OR REPAIR COMPOUND-CONNECTED 19 18 22 7 19 63 E SHOOT OR REPAIR COMPOUND-CONNECTED 19 18 22 7 19 63 E SHOOT OR REPAIR COMPOUND-CONNECTED 19 18 22 7 19 63 E SHOOT OR REPAIR COMPOUND-CONNECTED 19 18 22 7 19 63 E SHOOT OR REPAIR COMPOUND-CONNECTED 19 18 22 7 19 63 E SHOOT OR REPAIR COMPOUND-CONNECTED 19 18 22 7 19 63 E SHOOT OR REPAIR COMPOUND-CONNECTED 19 18 22 7 19 63 E SHOOT OR REPAIR COMPOUND-CONNECTED 19 18 22 7 19 63 E SHOOT OR REPAIR COMPOUND-CONNECTED 19 18 22 7 19 63 E SHOOT OR REPAIR COMPOUND-CONNECTED 19 18 22 7 19 63 E SHOOT OR SEAL CONTROL CONNECTED 19 18 22 7 19 63 E SHOOT OR SEAL CONTROL	REF BIS DIODE STABILIZATION REF BIS DISTORTION FOR TRANSISTOR REF BIS DISTORT FOR TRAN

SPSHMA PAGE 19

PET MBAS RESPONDING .TES. BY SELECTED GRPS

TASK GROUP SUMMARY PERCENT LENGERS PERFORMING

		ID-STATE	ICES CONTROL	Water of there are	•				SR SUPPLIES		PROPERTY OF STREET				-										•	•							-		ATORS
246	71	10 SPECIAL P	10 DEV	10	77		42	1.2	POWER	2 5	6.3 ***	02	25		54	52		, ,	30	58	52	50	7 7	35		**	30	20	77	!	1.2	5.4	,		92 OSCILLATORS
SPC 061	0 9	000	001	001	000	100	0	0	0 0	90	0	0	000		100	0 0	000	000	100	100	100	100	00	001		100	100	100	00		001	30	0.0		0.0
0 0	9	00	0	20	200	100	20	0	200	205	20	0	9 0		0 :	2 0		205	20	0	0	0	200	0 0	•	0	٥	0	0		0	80	0		0
980	3	33	•	75	7.5	100	50	13	8 9	7	52	7 .	7.5		15	7 1		9 0	•	15	15	15	10 : 10 :	2 4		75	63	63	75		15	52	3		ę,
50	-	• •	•	7.	75	100	50		63		25		0 20		75	7			8	75	15	75	8 8	9 8		15	6,3	63	75		15	25	25		:
5 P C	•	9 20	20	200	73	9		32	u, n	0 0		9				6	. 4	2 6	*	5		27		7 4		20	2	20	7		7	27	•		7
5 0 0 5 5	20	3 0	20	23	- 3	72	52	3,1	4 4	200	72	38	30		37	G 5	3	52	45	34	37	27	S		5	34	25	27	-		•	30	-		34
0.54	0	07	24		5 4 8		7.3	39	200		7 8	5 5	7		5	200	,	;	*	10			4.3	2 7	-	7	3.2	30	39		5.6	30	•		35
5 P C	32	* 0	3.8		9 6	78	7	36	6.5			3 1	7			1 4			4.9	*	32			7 7		78	30	32	24		27	32	-		32
250	20		~		2 2		•	•	57	200	10	7 1	1		*			5.3	5.2	9	7 5	7	5.			*	30	9	33		32	5.6	01		7
5 P C	22		3.	2.	0 0	7.8	*	*	0 u		10	5 :	7		*			5.2	52	4 6	40	31	25	7 7		?	35	36	31		3	52	00		4.2
X2T-70	6 476 63-19 DG YOU TROUBLESHOOT OR REPAIR CASCADE-COMMECTED	H 477 HILLS OF YOU USE ON REFER TO VARACTORS	479 MITTO DE YOU USE OR REFER TO FIELD E	480 HI-U4 00 YOU USE OR REFER TO	182 1110	"83 HZ-UL IN YOUR PRESENT JOB. DO YOU	484 HZ-02 DO YOU INSPECT PONER SUPPLIES	485 H2-03 DO YOU CLEAN POWER SUPPLIES	THE HATTH DO YOU ALIEN OR ADJUST PONER SUPPLIN	488 HZ-16 DO TOU TROUBLESHOOT TO POWER SUPPLY COMPONE	489 HZ-07 DO YOU REMOVE OR REPLACE COMPLETE POM	490 H2-UB DO YOU REMOVE ON REPLACE POWE	H2-10 00 100	BRIDGE RECTIFIERS	493 HZ-11 DC TOU NORK ALTH BRIDGE RECLIFIENS	TOTAL DE MAN MAN MAN MAN	TOTAL OF SERVICE OR SERVE TO THE THE TANK OF THE TANK	497 HZ-15 DO YOU USE OR REFER TO PEAK OU	498 HZ-16 DO YOU USE OR REFER TO AVERAGE	499 H2-17 DO YOU USE OR REFER TO RIPPLE AMPLITUDE	SOO HE-18 DO YOU USE OR REFER TO RIPPLE FREQUENCY	SOI HZ-19 DO YOU USE OR REFER TO PEAK HEVERSE (1	SOZ HZ-Z UN TOU USE ON MEFER TO SHAPE OF OUTPUT	THE TARK TO THE OF THE CAMPAIN TO FRANCE OF THE POST O	First RAS	H SOS H2-23 OF YOU WORK WITH CIRCUITS WHICH EMPLOY INDUCTIVE	H SOS HZ-L- SO FOU WORK WITH CIRCUITS WHICH EMPLOY CAPACITIVE	HOUT L-TYPE FILTERS IN 507 TAPLOT INDUCTIVE IN 507 H2-25 JO 700 -09K #1TH CIRCUITS WHICH EMPLOT INDUCTIVE	SOB F2-26 OF YOU FORK WITH CIRCUITS WHICH EMPLOY LC PI-17FF	F10.7EMs	H 509 H2-27 DU YOU KORK MITH CIRCUITS WHICH EMPLOY AC PI-TYPE	H SIG HZ-28 DG YOU MORK WITH CIRCUITS WHICH EMPLOT DON'T	H N. I HANNEY WALCH TAPE OF FILTER	FILTER AITH A DIFFERENT TYPE FILTER	H 512 H3-GI DO YOU MORK WITH DSCILLATORS IN YOUR PRESENT JOB

TASK GROUP SUMMARY PERCENT MEMBERS PERFORMING

						"
				MULTIVIBRATORS	The second second	
340		2222	* * * *	1	z 2 % & &	2 0 5
SPC 061	2000000000	000000000	00 00 00	20000	• • •	0 0 0
200	0000000	00000000	0 0 0 0	20200 00	0 00 0	0 0 0
5 P C	2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2	**************************************	2 2 2 6	4 4 5 5 7 4 5 W	3 22 3	\$ 2 5
SPC 057		**************************************	2 2 2 5	2000 2000	0 -1 0	\$ 1 5
SPC 056	407 47 7 6	22222222	2 2 2 2	28002 200	4 22 4	* * *
SPC 055	2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2	22222	2 5 5 5	2 7 0 2 8 8 8 8 8 8 8 8 8 8 8 8 8 8 8 8 8 8		2 2 2
240	22 - 2 - 2 - 2 - 2 - 2 - 2 - 2 - 2 - 2	2 4 7 7 0 7 7 7 7	* 5 = •	0 5 8	·	12 20
5°C 053	0740000	• K - • 8 8 8 8 •	2 2 2 =	- 8000	# 45 F	27 4.1
5 P C 0 5 2	45 4 4 4 4 5 6 6 6 6 6 6 6 6 6 6 6 6 6 6	22277020	\$ 5 5 5	250 2 22	22 22	2 - 2
SPC 051	222222222222222222222222222222222222222	85 7 7 7 7 7 7 7 7 7 7 7 7 7 7 7 7 7 7 7	2 2 2 2	V 0 0 0 2 N 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	2 22 2	2 2 2
X-15V	H 513 H3-02 JD TOU INSPECT OSCILLATORS H 514 H3-03 UC YOU ALIGN OR ADJUST OSCILLATORS H 515 H3-04 UD YOU RENOVE OR REPLACE COMPLETE OSCILLATORS H 515 H3-05 DU YOU RENOVE OR REPLACE OSCILLATOR COMPONENTS H 517 H3-05 DU YOU TROUBLESHOOT TO OSCILLATOR CIRCUIT LEVEL H 518 H3-07 DO YOU TROUBLESHOOT TO OSCILLATOR COMPONENTS H 518 H3-07 DO YOU USE ON REFER TO FREDBACK H 520 H3-09 UC YOU USE ON REFER TO FREQUENCY DETERNINING DEVICES	(FDD)	0	13-23 OF YOU WORK WITH SHUNT HARTLEY H3-24 OF YOU WORK WITH COLPITS SINUSOI H3-25 OF YOU WORK WITH CLAPP SINUSOI H3-25 OF YOU WORK WITH BUTLER SINUSOI H3-27 OF YOU WORK WITH BUTLER SINUSOI OSCILLATORS 11-02 OF YOU WORK WITH HULTIVIBRATOR 11-02 OF YOU WORK WITH HULTIVIBRATOR	541 11-03 50 TOU ALIGN OR ADJUST MAVE GENERATING OF CINCUITS 542 11-04 ON TOU CALIBRATE MAVE GENERATING OR SMAP 543 11-05 00 TOU TROUBLESHOOT TO MAVE GENERATING OF CINCUITS 544 11-05 00 TOU TROUBLESHOOT TO MAVE GENERATING OF	1 545 11-07 DOMENTALY OR REPLACE COMPLETE WAVE GENERATING OR SMAP 146. CIRCULTS 2 546 11-08 DO YOU REMOVE OR REPLACE WAVE GENERATING OR SHAPING COMPONENTS 1 547 11-09 DO YOU WORK WITH HULTIVIBRATORS WHICH CONTAIN LC TANK CIRCULTS

PCT MBRS RESPONDING .YES. BY SELECTED GRPS

GPSH4A PAGE 21

							-											,																			
						•			LIMITERS	AND CLAMPERS		Party Me Party			•			1	ELECTRON TUBES						-												
	5 P.C	**	33	•		. 7	77	22	15		0	2 9	2 0	20	•	•	15	5.6		7		52	5.0	52	2 4	0	13	25	. ~		= :	32	32	=	5	2	
	0 0 0	100	7	50	0	000	100	20	100	100	100	001	9 4	200	100	100	20	100		001	00	7	0	001	•	9 6	0.9	001	0 0		001	001	000	100	001	001	
	240	0	0	9	c	• •	0	0	0	0	o	0	o c	00	a	0	o	0		0	9 3	0	a	0	3 0	0	0	0 :	0		0	0 :	0	0	0 0	0	
	0.00	15	38	-	1	75	15	32	15	15	63	7	9 0	9 -	15	75	-	75		15	50	. 60	3.8	75	9 1	200	50	75	52		5	45	2.2	16	3.5	:	
	5PC 057	15	9	2	4	75	75	52	75	7.5	•		9 4	7 -	7.5	75	-	15		75	5.5	7	3.8	75	8 9	0	20	15	25.		7.5	15	2,5	75	75	6	
	5 P C	27	23	-		35	32	-	32	23		23	23		*	*_	.	7.9		5.5	2 5	27	3.	53	23		9.	27			*	35	- 0	-	35	-	
	S & C 0 8 5	3,1	30	2,1	9	21	20	53	25	21	20	-	07	o .	0	15	17	69		52	æ -	37	*	28	*	n -	20	30	4 0		,		* *	-	÷	100	
	SP C	1.7	15	•	-	•	9 7		58	11	12	2	20.	. 0	5	13	- 5	33		9 -		• •	5 4	•	1 0	, 7	*	0 1	-		2	5 7	2	2	= :	-	
	SPC 053	7.7	24	-	*	2.4	27	-	27	22	•	- 1	7 -		-	3 0	<u><</u>	57		¥ 3		30	4	3	30 0	-	-	22			30	27	7 7	32	27	•	
	5 P C 0 5 2	30	27	•	36	2.0	27	2	36	7.	7	7	7 7	-	23	7	-	52		36	2.5	76	36	7	2 :	2 =	7	7.			9	*	32	37	35	=	
	SPC 051	5	56	•	4	27	27	•	2	25	23	77	23	7	77	-	-	63		7	22	7.0	96	22		:=	13	52	. *		37	33	35	37	<u> </u>	•	
TASK GROUP SUMMARY PERCENT REMBERS PERFORMING	DY=TSK	1 548 11-10 DO YOU MORK MITH MULTIVIBRATORS WHICH CONTAIN AC	1 549 II-II DO YOU WORK HITH MULTIVIBRATORS WHICH CONTAIN	I 550 II-I'S DO YOU WORK WITH MULTIVIBRATORS WHICH CONTAIN DON'T	THE ROLL WINE WITH ACTABLE WILLT	552 11-14 DO YOU WORK WITH MONOSTABLE HU	553 11-15 DO YOU WORK WITH BISTABLE MULT	SS4 III-IS DO TUU MORK WITH DON'T REMEMBE	1 555 12-0: DO 700 MORK MITH LIMITERS OR CLAMPERS IN TOUR	12-02 DO YOU WORK WITH SERIES DIODE L	557 12-03 DO YOU WORK WITH SHUNT DIODE L	12-04 DO YOU WORK WITH LIMITERS WITH	THE TAIL OF THE PARTY HAVE AND THE PARTY OF	12-07 DO YOU KORK KITH DON'T KNOK KHICK TY	12-08 DO YOU WORK WITH BASIC DIUDE CLAMPING CIRCUITS	12-09 DO YOU WORK WITH DIDDE CLAMPING CIRCUITS WITH	H TYPE OF CLAMP	1 565 13-01 IN YOUR PRESENT JOB. DO YOU WORK ON EQUIPMENT WHICH	CONTAINS ELECTRON TUBES	13-02 DO YOU CHECK ELECTRON TUBES TO SEE IF THE	1 567 14-83 00 100 USE TUBE TESTERS TO CHECK ELECTRON TUBES	13-0: 30 TOU USE SCOPES TO CHECK ELECTRON TUBES	STO 13-00 DO YOU USE SUBSTITUTION TO CHEC	13-67 DO YOU USE OR REFER TO CUTOFF	1 572 13-00 DO TOU USE OF REFER TO FEM INVERSE VOLTAGE RATING	13-1 UO YOU USE ON REFER TO TRANSIT TIME	JO YOU USE OR REFER TO PLATE DE	13-1, JO YOU USE OR REFER TO SATURATION	30 TOU COMP	RESISTANCE FOR ELECTRON TUBES	13-15 DO TOU USE OR REFER TO PLATE VO	SBO 13-16 OF TOU USE ON REPER TO PLATE CL	1 Sept 13-17 CO COC COR TENENT TO GRAD COCKETS TO COCKE	583 13-14 00 YOU USE OR REFER TO CAT	BA 13-2 DO YOU USE ON REPER TO CATHODE CURRENT	OF THE AMPLIFICATION FACTOR FOR TRIODES IS DEFIN	MATIO OF CHANGE IN PLATE VOLTAGE TO A CHANGE IN GRID

VOL TAGE

PCT HBRS RESPONDING .YES' BY SELECTED GRPS

TASK GROUP SUMMARY PERCENT MEMBERS PERFORMING

GPSH4A PAGE 22

5440
SELECTED
. YES. BY
RESPONDING
T MBRS

GPSNAA PAGE 23

TASK GROUP SUMMARY PERCENT MEMBERS PERFORMING

			I	•					-							-		HE TERODYNING,	110N	JN, **				4S	-	2
				nc. 1994	ANGES -	opera o	office w			***************************************	*1							RODY	DULA	MODULATION,				SYSTEMS		4
				SE	8UT NO	ECTR	173 3	8662	n.t	IA103	dS							HE TE	DEMO	100		40		AM		
200	- * 0	12	-	*	51	-	*	.,	Š	32	*		52			5	-		27	50	-	1	20	^		N 14
140	000	0	0	100	000	20	001	20	100	100	001		001	000	9	9	7 7	100	0	80	001	08	0	0.0	•	00
245	000	0	0	0	00	0	0	0	o	0	0		0	0 0	0 0	0	o 0	20	3	90	0	0	9	0	0	00
5 P C	3 9 8	98	2	7.5	45	-	15	52	15	15	75		15	63	9 6	38	9 6	88	6.3	75	15	6,3	15	63	38	2
SPC 087	25	38	=	75	75	13	7.5	25	15	75	75		7.5		38	3.	8 7	88	9	75	7.5	•	75	;	38	0.5
390	222	27	•	23	* 0	-		7	50	7	:		50	30 4	209	36	22	16	36		9	*	80	8	9	• •
5 PC 0 5 5	35		1.1	45	5 -	11	;	\$	•	<i>-</i>	25		30	5 .	5.5	50		55	;	*	50	5	32	1	•	~~
200		•	•	15	2.2	•	•	2	.,	22	20		23	- :	27	01	0 0	6.5	2.3	7	56	01	3.6	-	=	-=
5 P C	***	•	2	27	57	Œ	22	÷	7	7	30		7	<u> </u>	- +	54	, ,	7.8	32	5.4	*	•	4	61	•	==
SPC 052	222	-	-	2	• •	=	3	37	# #	3	30		35	- :	: =	21	22	-	*	;	28	-	37	-	1.2	-=
5 PC 0 5 1	225	1,	15	32	5 -	=	Ē	3.8	*	37	30		30		33	77	22	99	*	4	52	•	3	1.5		. 7
Dy-15K	C 011 CI-CO DO YOU TROUBLESHOOT OR REPAIR PARAPHASE AMPLIFIERS C 012 CI-CA DO YOU TROUBLESHOOT OR REPAIR PUSH-PULL AMPLIFIERS C 013 CI-CS DO YOU TROUBLESHOOT OR REPAIR COMPOUND-CONNECTED C 013 CI-CS DO YOU TROUBLESHOOT OR REPAIR COMPOUND-CONNECTED	U BIN JING TO THOUBLESHOOT OR REPAIR CASCADE CONNECTED AMPLIFIERS	U 615 JI-U7 DO YOU THOUBLESHOOT OR REPAIR DON'T KNOW WHICH TYPE	J 616 JZ-UI DO YOU WORK WITH 6AS TUBES (HOT CATHODE OR COLD	U 617 UZTUZ DO YOU WORK WITH CATHODE-RAY TUBES U 618 UZTUZ DO YOU USE OR REFER TO THE CHARACTERISTICS OF BEAM		J 620 J2-05 DO YOU USE OF REFER TO THE CHARACTERISTICS OF	1 02-02 DO TROUBLESHOOT OR REPAIR CIRCUITS IN WHICH	J 422 J2-07 DG YOU USE OF REFER TO THE PRINCIPLES OF OPERATION OF	CLECTRON GUNS OF CATMODE-RAY TUBES (CRT) 0 823 J2-08 DO YOU USE OR MEER TO THE PRINCIPLES OF OPERATION OF	INCIPLES OF	ELECTROSTATIC DEFLECTION SYSTEMS OF CATHODE-RAY TUBES	30 YOU USE OR REFER TO PHOSPHOR	626 32-11	UZ-13 DO YOU USE OR REFER TO PERSIST	629 JZ-1+ JO YOU USE OR REFER TO DECAY T	630 J2=15 UO YOU USE OR REFER TO FLUORES	35-01 00 TOU NOVE ON	SESTERNATION TO SHEAT MEDICAL TOTAL FEEL STATE OF SHEAT FEEL STATE	634 US-US DO YOU PERFORM TASKS ON FREQUENCY MIXERS	TOU USE OR REFER TO THE HETER	L 636 USECS DO YOU PERFORM TASKS ON REACTANCE MODULATORS	637 J3-06 DO YOU PERFORM TASKS ON MODULATED OSCILLATORS	K 638 KI-01 DO YOU WORK ON AN TRANSHIT OF RECEIVE SYSTEMS IN YOUR	639 AT-UZ DO TOU INSPECT AM TRANSMIT OR PECETY	K 640 KI-CS OF YOU CLEAN AN TRANSMIT OR RECEIVE SYSTEMS K 641 KI-C4 OF YOU ALIGN OR ADJUST AN TRANSMIT OR RECEIVE SYSTEMS

33.

THE STATE STATE OF THE STATE OF

-		_					-																-		-						-				
-							-									•	•								7								-		
																										FIM SYSTEMS		No. of Street							
	SPC 063	•	•	2	7		. «			1	•	1	0 4		^	,	,	m .	۰ م	ı vo	-	s.	•		,	12 FM		7	0 7	: '	,	0	•	,	· w
	200	0.8	•	0	0	9	9 4	200	0	09	0.4	90	0 0	:	0	100	001	0 0	200	20	9	0	0	2	100	0	0	0	0 0	;	50	0	0	20	202
	2000	0	•	0	0	d	0 0	0	0	0	0	0	00		o	0	0	э с	3 0	0	0	0	5	,	0	0	0	0	00		0	٥	0	0	0
	950	;	20	2	2		0 0		200	90	20	20	23	;	6.3	7.5	75	200	2 4	13	3.6	36	36	: ;	7.5	36	13	- 3	5 - 5	. ;	52	13	2	13	2
	250	•	0 9	13	-	ď	0 0	9 0	200	90	20	05	23	3	•	7.5	75	2	0	-	7 8	38	75		7.5	38		13	2 - 2		52	13	13	=	
	250	•	*	- P	9	3			•	*	*	*				*	-	0	• 0	0	•	ş	•		-	32	35		35		2	32	27	s	
	5PC 056	0	æ	0	10	-	0 -	- a	0 0	0	:	- 2	~ :	2	0	0	=	~ 1			, ,	0	-	2	-	90	11	= :	7 8	?	5	•	13	=	0
	2450	17	•	1.2	•	•			. ~	0.7	•	•	u		^	4	1		- 0	0	*	0	•		۰	**	97	•	5 7	. :	50	54	•	,	=
	286	•	:	22	•	:	: :		0	:	-	=	0 4	•	*	•	•	0 .	n c	0	·n	•	3		=	35	38	*	77	. ;	32	35	90	ď	=
	5PC 052	-	=	2	•		::		12		:	?	~ 0	:	15	2	*	• •	- "	-	æ	1	-	:	-	22	50	77	22	. :	•	50	•	•	13
	SPC 051	•	~	~	•		::	. •	-	13	:	=	~ 0		=	7	2	.	• -	• ~		~	-	:	•	54	23	5 :	52	. ;	20	77	-	•	2
	• 0																																		
SALENDER SERVICE	DY-75K	S DO YOU TROUBLESHOOT TO AN TRANSMIT OR RECEIVE SYSTEMS	TROUBLESHOOT TO AN TRANSMIT OR	TO TOU REHOVE OR REPLACE AN TRANSMIT OR RECEIVE	8 DO YOU REHOVE OF REPLACE AM TRANSHIT OR RECEIVE	NEWTS STORY OF THE PARTY OF THE	TO THE PROPERTY OF THE PARTY OF	OU YOU PERFORM TASKS ON	DO YOU PERFORM TASKS ON POWER	DO TOU PERFORM TASKS ON LOCAL	DO YOU PERFORM TASKS ON IF AMP	DO YOU PERFORM TASKS ON DETECTOR	A DO YOU THATORY INDICE TO DOZYT REMEMBER ANION AN STREET	Jan 17 17 17 17 17 17 17 17 17 17 17 17 17	B DO YOU USE OR REFER TO FREQUENCY STABILIZATION IN MSHITTERS	DO TOU USE OR REFER TO SENSITIVITY OF	DO TOU USE OR REFER TO SELECT	DO TOU USE ON MEFER TO 2ND HA	350 001 00	DO TOU USE OR REFER TO CO-CHANNEL	DO YOU USE OR REFER TO IMAGE FREG	DO TOU USE OF REFER TO SIGNAL TO INAGE R	THE CHILD AND THE PROPERTY OF CHESTER OF THE PARTY OF THE PROPERTY OF THE PROP		E DO TOU TRACE SIGNALS OF CURRENT PATHS THROUGH AN	R PHESENT JOB	DO YOU INSPECT FM TRANSMIT OR RECEIV	DO YOU CLEAN FH TRANSHIT OR RECEIVE	S DO TOU TROUBLESHOOT TO FM TRANSMIT OR RECEIVE		A DO TOU TROUBLESHOOT TO FM TRANSMIT ON AECEIVE	7 DO YOU HENOVE ON REPLACE FH TRANSMIT OR RECEIVE	ILMS OF YOU REMOVE OR REPLACE IN TRANSMIT OR RECEIVE	01010	U DO YOU PERFORM TASKS ON PREQUENCY MULTIPLIERS
MEMBERS PERFORMIN		KI-05 00 YOU TROUBLESHOOT TO AN TRANSHIT OR RECEIVE	KI-DE DO YOU TROUBLESHOOT TO AN TRANSMIT OR COMPONENTS	KI-DT DO YOU REHOVE OR REPLACE AN TRANSMIT OR	S KILDS DO YOU REHOVE OR REPLACE AM TRANSHIT OR	100	TA TO NO NAME TO DESCRIPT OF THE PARTY OF TH	KINI DO YOU PERFORM TASKS ON AUDIO	KI-IZ DO YOU PERFORM TASKS ON POWER	KI-13 DO TOU PERFORM TASKS ON LOCAL	KI-14 DO YOU PERFORM TASKS ON IF AMP	KI-15 DO YOU PERFORM TASKS ON DETECTOR	ALTER OF YOUR TRANSPORT TASKS ON DON'T ALL ACCOUNTS OF WALLEY OF YOUR CONTRACT OF TASKS OF TA	TRANSMITTERS	KI-18 DO YOU USE OR REFER TO FREQUENCY STABILIZATION I TRANSMITTERS	KI-19 DO TOU USE OR REFER TO SENSITIVITY OF	KI-20 DO YOU USE OR REFER TO SELECTIVITY OF	KI-ZI DO TOU USE ON MEFER TO ZNO HA	ALLES DO YOU USE ON REFER TO BANDTASS DE	KI-24 DO TOU USE OR REFER TO CO-CHANNEL	KI-25 DO YOU USE OR REFER TO IMAGE FREQUENCIES	KI-Z4 DO TOU USE OR REFER TO SIGNAL TO INAGE R	TRACE RECECTION RATIOS	TALKSMITTER SCHEMETIC DIAGRAMS	RECEIVER SCHEMATIC DIAGRAMS	K2-DI DO TOU MORK WITH FM TRANSMIT ON RECEIVE	K2-02 DO TOU INSPECT FM TRANSMIT OR RECEIVE	K2-03 DC YOU CLEAN FH TRANSHIT OR RECEIVE	K2-05 DO TOU TROUBLESHOOT TO FM TRANSMIT OR	SYSTEMS	COMPONENTS	2 K2-07 DO YOU MEHOVE ON REPLACE FH TRANSMIT OR	SYSTEMS 3 KZ-08 DO TOU REMOVE OR REPLACE FM TR	COMPONENTS K2=09 DO YOU PERFORM TASKS ON AUDIO	KZ-10 DO TOU PERFORM TASKS ON
		442 KI-05 DO YOU TROUBLESHOOT TO AN TRANSHIT OR RECEIVE	TROUBLESHOOT TO AN TRANSMIT OR	REHOVE OR REPLACE AN TRANSMIT OR	REHOVE OR REPLACE AN TRANSHIT OR	COMPONENTS	TO THE THE PARTY IN THE PARTY OF THE PARTY O	ALE KILLI DO YOU PERFORM TASKS ON ALDIO	KI-IZ DO YOU PERFORM TASKS ON POWER	650 KI-13 DO TOU PERFORM TASKS ON LOCAL	SSI XI-14 DO YOU PERFORM TASKS ON IF AMP	652 KI-15 DO YOU PERFORM TASKS ON DETECTOR	AN TIME OF STREET ASSESSED TO TOO TOO	TRANSMITTERS	OR REFER TO FREQUENCY STABILIZATION I	KI-19 DO TOU USE OR REFER TO SENSITIVITY OF	657 KI-20 DO 700 USE OR REPER TO SELECTIVITY OF	658 KI-ZI DU TOU USE ON MEFER TO 2ND MA	DO YOU USE ON REPER TO BANDIASS DO YOU	ASI KI-24 DO TOU USE OR REFER TO CO-CHANNEL	662 X1=25 DO YOU USE OR REFER TO IMAGE FREQUENCIES	SAS KI-ZA DO TOU USE OR REFER TO SIGNAL TO INAGE R	A PART OF TA	THANSMITTER SCHEMATIC DIAGRAMS	RECEIVER SCHEMATIC DIAGRAMS	ON RECEIVE	667 X2-02 DO TOU INSPECT FM TRANSMIT OR RECEIVE	668 K2-03 DG YOU CLEAN FM TRANSMIT OR RECEIVE	TOU ALIEN TH TANNETT ON MECETYE ST TOU TROUBLESHOOT TO FM TRANSHIT OR	SYSTEMS	TOU TROUBLESHOOT TO FM TRANSMIT	K2-07 DO YOU MEMOVE ON REPLACE FH TRANSMIT OR	REMOVE OR REPLACE FH TR	A74 K2-09 DO YOU PERFORM TASKS ON AUDIO	KZ-10 DO TOU PERFORM TASKS ON

PCT MBRS RESPONDING .YES' BY SELECTED GRPS

TASK GROUP SUNNARY PERCENT NEMBERS PERFORMING

SPC SPC SPC SPC SPC SPC 055 056 057 058	10 14 13 13 0 20 5	14 23 25 25 0 20 7	18 25 25 0 20	23 25 25 0 2	25 25	27 38 38 0	•	17 23 38 30 40 0	68 9 75 75 0 100 69 TUMBERING	65 9 75 75 0 100 63 SYSTEMS	9 75 75 0 100		2 9 75 75 0 100	• •	201 2 58 52	31 9 63 63 0 100 25	39 9 63 63 0 80 39	23 14 75 75 50 100 12 0015	15 % 63 63 0 100 10 ENCTIONS	63 63 0 100 10			15 % 63 63 U 100 10	21 9 75 75 50 100 12	21 9 75 76 50 100 12	21 9 75 75 50 100 12	20 9 75 75 50 100 12	1 001 05 54 54 6	24 9 75 75 50 100 14
380	=	 • •	=	9		53		2	S	2	un a	0 7	•	= 1	o	=	5	-	5	•	4	•	•	15	1.2	=	=	7.1	
5 PC 053	=	- 2	-	54	•	35	:	32	•	=	ı,	-	'n	= "	n	æ	2	-	30	æ	u	,	J.	=	=	=	•	-	= =
250	15	- e	12	•:		7	,	20	36	30	* 5	3 5	1	30	-	52	4.2	25	•	•			9	7	12	12	20	52	52
SPC	12	•=	13	-:	: -	23		77	1.6	*	50	2 5	27	27	:	2.2	12	23	<u>*</u>	51	7		-	50	20	6	•	13	53
DY=1SK	K 676 KZ-11 DO YOU PERFORM TASKS ON ORIVERS (INTERMEDIATE	X 477 XZ112 DO YOU PERFORM TASKS ON POMER AMPLIFIERS X 678 XZ113 DO YOU PERFORM TASKS ON RE AMPLIFIERS	679 K2-14 DO YOU PERFORM TASKS ON FRE	K 680 K2-15 DO YOU PERFORM TASKS ON IF AMPLIFIERS	KA-17 DO YOU PERFORM TASKS ON	683 K2-18 DO YOU TRACE SIGNALS OR CURRENT PA	SCHEMATIC DIAGRAMS OF FH TRANSMI	ATHS THROUGH	X 685 K3-DI DO TOU CONVERT DECIMAL (BASE 10) NUMBERS TO OCTAL	(BASE 8) NUMBERS K 6-6 KS-CO DO YOU CONVERT DECIMAL NUMBERS TO BINARY (BASE 2) NUMBERS	YOU CONVERT OCTAL	ASS NATION OF THE CONVERT BINARY NUMBERS TO	690 K3-06 DO YOU CONVERT BINARY LUNBERS TO	X 641 K3-07 DO YOU ADD BINARY NUMBERS TO GET A SUM	CARRY METHOD	K 693 K3-09 DO YOU SUBTRACT BINARY NUMBERS USING THE DIRECT	ADD OCTAL NUMBERS	500	RELATING TO LOGIC FUNCTIONS L 696 LI=02 DO YOU CONSTRUCT TRUTH TABLES FOR AND LOGIC SYMBOLS	OR GATES	OH GATES TO WO YOU CONTRUCT TRUST TANK BOY OF OR	SYNBOLS WITH STATE INDICATORS	L 699 LIMES DO YOU CONSTRUCT TRUTH TABLES FOR EXCLUSIVE ON LOGIC SYMBOLS OR GATES	L 703 LI-06 DO YOU USE ON REFER TO TRUTH TABLES FOR AND LOGIC	L 701 KI-00 DO TOU USE OF REFER TO TRUTH TABLES FOR OR LOGIC	0	L /U3 L1-00-00 DO TOU USE OR REFER TO TRUTH TABLES FOR EXCLUSIVE OR	THE LI-TO BE YOU USE OR REFER TO LOGIC SYMBOLS FOR A	L 705 LI-11 DO YOU USE OM REFER TO LOGIC SYMBOLS FOR DR GATES L 705 LI-12 DO YOU USE OM REFER TO LOGIC SYMBOLS FOR MAND OR NOR GATES

PET HBRS RESPONDING TYEST BY SELECTED GRPS

GPSHAA PASE 26

TASK GROUP SUNHARY PERCENT MENGERS PERFORMING

PRACRAT MEMBERS PRAFORMING			245		SPC	SPC		25	5 6 6			٠,		-
UV-13K		150		540			950			000	190	-		
707 LI-13 DE YOU USE OR REFER TO LOGIC SYMBOLS FOR EXCLUSIVE ON GATES	"usi ve	17	53	=	91	73		7.5	7.5	20 1	1 001	•		
LZ-01 IN YOUR PRESENT JOB, DO YOU PERFORM ANY TASKS RELATING TO BOOLEAN EQUATIONS, LOGIC DIAGRAMS, OR	10610	12	•	=	0,	2	•	6.3	3	0	0.6	9 80	BOOLEAN	
		•	•	۳	~	•	۵	38	38	0	0,9	EQU.	EQUATIONS	
TRANSISTUR LOGIC (DCTL) CIRCUITS L2-03 DU YOU CONSTRUCT TRUTH TABLES FOR CURRENT MODE LOGIC	DE 1061C	•	•	9	~	*	S	2.5	52	0	0 *	S water	Stand Stands	-
CAL) LINCUITS	,	^	•	•	2	*	'n	75	7.5	0	100	s		•
-0	TES THE	0.0	-·	• ~		m	us us	2 5	25	00	00	3 6		
THOSE OF THOUBLESHOOTING DIGITAL CIRCUITS	*	80	0	•	,	=	s	25	52	0	0,	s		
ALGEBRA ALGEBRA OF YOU USE OR REFER TO LOGIC SYMBOLS FOR DIRECT	101	•	•	•		^	•	38	36	0	0.9	,		
EFER TO TRUTH TABLES FOR	CURRENT HODE	•	,	•		•	s	57	5 2	0	0.	,		
CONTRACTOR ON WEFER TO LOGIC DIAGRAMS CONSISTING MORE THAN ONE LATE	10 9411	?	2	00	,	11	5	6,3	63	0	001	7		-
LZ-11 UO TOU COMPUTE SUM AND CARRY EXPRESSIONS FOR	SERIAL	٠	٠		,	,	S	• 3	۴,	0	001	_		
TALL OF TOLL ADDER LOWING THROUGH PARALLEL FULL	* 00E	Ξ	=	-	5	•	•			0	621	s		
LOGIC DINGRANS LOGIC		•	1.1	-	,	5	•	•		0	0.8	90		
IN WITH BISTABLE (FLIP-FLOP)	MULTIVIBRATORS	• •		==		5 5	•.•	55	63	00	0 6			
ALL TELEFORMETORS OF REFER TO FLIP-FLOP HULTIVISKATOR	*	•	17	11	•	5		7.5	15	0	100	80		
US TOU USE OF REFER TO SINGLE-SHOT MULTIVIBRATOR	108	•	11	=	•	15		50	05	0	1 00	0		
TOU USE ON MEFER TO FLIP-FLOP THUTH TA	DIAGRAMS		•:2	- œ		5 *		75	5.0	00	000	• •		
TOU USE OR REPER TO COMPLEMENTED F		= :	= :	•	5 .	= :	• (2 ;	0 1	50	.		
TOO OSE ON MEFER TO COMPLEMENTING	21907 40	~	7	=	•		•	52	52	0	20	Δ.		
LZ-ZZ DO TOU MEASUME PUT MAYESMAPES OF LOGIC CIRCLITS SCHAMELE DIAGRAMS SCHAMELE DIAGRAMS	LIP-FLOP	22	22	==	~ •	15	• •	38	38	00	00	so so		
L2-24 OF YOU THACE FLOW THROUGH COMPLEMENTING FLIP-		2.	1.2	=	S	2	•	5.2	5.2	0	50	s		_
LOGIC STREELS WHUTH TABLES FOR J-K FLIP-FLOP	• 0			2		0	2	45	5.5	0	0	•		
	-	-	-	-	-	-	-	-		-		-		

PET MBRS RESPONDING TEST BY SELECTED GRPS

TASK GROUP SUMMARY PERCENT MEMBERS PERFORMING

PC SPC SPC SPC SPC SPC SPC SPC SPC SPC S	18 5 63 63 0	1 13 17 6 63 63 0 80	20 20 20 20 20 20 20 20 20 20 20 20 20 2				12 3 26 26 26			7 13 13 15 16 16		8 9 5 5 11 5 25 25 0 40 8		8 10 3 5 13 5 13 13 0 20 5		,	9 10 3 7 10 5 36 38 0 60 \$	13 15 3 9 15 5 50 50 0 90 8	13 5 6 17 5 50 50 0 60 6	8 6 5 4 10 5 25 25 0 40 8	6 6 3 4 6 5 25, 25 U 40 5	7 7 5 5 6 5 38 38 0 60 5	8 9 3 4 8 5 50 50 0 60 7	* * 3 2 1 5 13 13 0 20 3	5 6 3 4 7 5 13 13 0 0 3	7 7 5 4 7 5 38 58 0 40 7		63	36 41 32 35 33 63 6 0 80 27 CI	32 32 30 27 28 36 50 50 0 80 22
SPC 051	JOB 17			::		• •	-		• :	2 -	:	•		•	•		•	-		104N	ENT	AGE 7		* 40 5	#1 NG 5			55		32
0Y-75K	=	2	PERSONAL PROPERTY OF THE PROPE	2 0	PERSON OF THE COUNTRY OF THE PERSON OF THE P	200		2 6		TOUR DEPENDENCE OF CHACKS	NATE FLIP STORS	THROUGH LOGIC DIAGRA	SERIEL UP. OR DOWN-COUNTERS HAVING COMPLEMENTING PLIP	LI-13 DO YOU TRACE DATA FLOW THROUGH LOGIC DIAGRAMS OF	DECADE COUNTERS		CARIS OF YOU TRACE DATA FLOW THROUGH LOGIC DIAGRAMS OF	I	SHIFT REGISTERS L3-17 DO YOU TRACE DATA FLOW THROUGH LOGIC DIAGRAMS OF	COUNT AFTER SPECIFIC	COUNT AFTER	L3-20 DO YOU COMPUTE THE BINARY COUNT AFTER SPECIFIC INPUT POLSTS FOR SERIAL UP-COUNTERS FEEDING A PARALLEL STORAGE		PULSES FUR OTHER TYPES OF COUNTERS	ITE OF EACH FLIP-FLOP IN	POPRIATE AND GATE P	E A REQUIRED	MANTOCHE BAYE GENERALORS	0561	PULSED OSCILLATORS WITHOUT

	SPC SPC 061 063		200	95 00	** 001	00 37	80 24 USE OF SIGNAL	O 17 months of the contract of	20 22	9 0	60 12	91 09	20 17	60 25 HOTORS AND	D 17 GENERATORS	1 0		~			20 2		20 7
	S 540	0000		20	0	20 1	0.0	0.0	90	0	00	9.0	00	a	0	00	000	00					20
	SPC 058	255	0 00 0 00	89	7.5	89	50	25	3.8	2	20	90	25	80	13	0 4		2.0	0	•	22	2 2	22
	SPC 057	25.5	9 0	88	75	8	150	25	36	13	9 0	90	25.	20	-	20	0	2.2	0	2:	2.2		
	SPC 056	4000		32	7	9 6	 1	- ·	*.	0	00			9.0					•	.	n	• •	. 0
	5 P C	988		,	S	જ	27	21	27	=	==	17	13	32	30		7 89 -		10	•	• •	4 4	4 ~
	SPC	~ ~ ~ :	4 4	36	32	37	9-	ā	-	•	r 9		70	20	91		~ 3	-	2	2 .	. ~	- 74	
	SPC 053	452		•		38	22 19	22	61	-		-	==	32	32								~ ~
	386		n wn	19 0	;	5	25 26	7.	0 20	•		-		32	~	0 0					n 4		n n
	580	25.0	0.00	2.0	7	*	25	1.7	20		21	-	13	32	58		22	7.		u. u	n un	J.	
TASK GROUP SUMMANY PERCENT MEMBERS PERFURNING	07-75K	741 H1-05 DO YOU WORK WITH BLOCKING 742 M1-04 DO YOU USE OR REFER TO RI 743 M1-07 DO YOU USE OR REFER TO FA	REFER TO	M 264 MI-10 ON TOU USE ON REFER TO PHYSICAL LENGTH OF SANTOOTH	M 767 MILLIO TOU USE OR REFER TO LINEAR SLOPE OF SANTOOTH	2	N 705 M2-01 00 YOU USE SIGNAL GENERATORS IN YOUR PRESENT JOB N 770 M2-02 00 YOU PERFORM OPERATIONAL CHECKS WHILE USING SIGNAL	2	H 772 M2-04 DO YOU TROUBLESHOOT TO AN ASSEMBLY OR SUBASSEMBLY MAILE USING SICHAL GENERATORS		AUDIO SINE-WAVE	AS SQUARE MANE, TRIANGLE, PULSE, OR SPIKE 176 M2-08 DO YOU USE RF GENERATORS LESS TIAN 1.	OTHER SPECIAL PURPOSE OR	H 279 H3-01 IN FOUR PRESENT JOB. DO YOU PERFORM ANY TASKS DEALING WITH ALTERNATING CURRENT OR DIRECT CURRENT MOTORS OR	ME-EXENDINS TOU INSPECT HOTORS	781 M3-03 00 YOU CLEAN OR LUBRICATE MOTOR	783 M3-35 PO 70U	M3-07 00 YOU TROUBLESHOOT AS FAR AS	CONNECTIONS OF MOTORS 786 M3-U8 DO YOU TROUBLESHOOT DOWN TO	787 MS-UP DO TOU PEHFORM ANY TASKS ON	NO NAME TO THE PARTY OF THE PAR	790 M3-12 UD TOU PERFORM ANY TASKS ON 791 M3-13 UD YOU PERFORM ANY TASKS ON	792 M3-14 DO YOU PERFORM ANY TASKS ON COMM 793 M3-15 DO YOU PERFORM ANY TASKS ON POLE

PCT MBRS RESPONDING .YES' BY SELECTED GRPS

TASK GROUP SUMMARY PERCENT HEMBERS PERFORMING

SPC SPC SPC SPC 057 056 060 061 063	25 26 0 40 6	38 38 0 60 5	38 36 0 60 5	25	1 09 0	1 09 0 05	36 0 40 1	0 0 61	0	25 0 20	0 0 11	0 0 61	13 0 0	2 0 0 0	A 86 50 100 71 METER	63 63 0 80 14 MOVENER	61 09 0 69 14		36 36 0 60 12	8 50 1	5 75 0 100	8 88 50 100	3 63 50 60	75 75 0 100 37	0 0 0	63 63 0 100 8	0111	6	n o	GN 5 0 0 0 0				Si		11-14
950	ın	-	-	36	32	23	27	•	2	-	2	0	2	0	7.3	-	8		1	73	36	73	9.0	e c	2	2	27		-	27		27	32	4		
5°C 055	œ	=	-	5	17	*	20	15	00	15	7	•	17	1	72	1.5	17		=	73	34	72	38	4 3	•	-	20	:	-			11	21	-	?	
SPC 054	~	-	-		0 !	'n	13	1	s.	6	7	7	7	*	67	^	1		•	8 9	20	67	50	37	7	-	^	3		1		•	•	•	1	
5PC 053	S	Ξ	7	7	4.7	80	0	Ø	~	=	S	~	-	0	76	39	00		٣	7.3	7 4	10	35	7 0	,	30	24	-	:	2.4		9	32	ď	•	
5 P C	a	•	0	20	20	1.	3.4	1.2	1	*	•	*	<u>.</u>	*	72	<u>•</u>	11		<u>-</u>	73	30	10	35	7 3	-	2	3	-	2	1.2	:	*	5	•		
5 P C	s	•	0	1.9	7 7	5		- 53	1	*	9	1	13	*	12	15	91		2	73		10	35	7 1	7	22	•		2	*	:	1.	8	4		
DY-TSK	A 794 M3-10 DO YOU DETERMINE OR MEASURE THE MACHITUDE OF THE	H 295 H3-12 DO YOU DETERMINE OR HEASURE THE DIRECTION OF THE HECANALCAL FORCE OR TOROUGE THE DIRECTION OF THE	EZ	747 H3-14 DO YOU MORK WITH SYNCHRONDUS MOTORS	M3-20 00 100	799 H3-21 DO YOU HORK WITH SPLIT-PHASE MOTORS	800 43-22 00 YOU	801 43-43 00 TOU	852 ×3-4+ 00 YOU	603 M3-25 DO TOU OPERATE GENERATORS	ASH MB-26 DO YOU RENOVE OR REPLACE COMPLETE	805 "3-17 00 YOU REHOVE OR REPLACE GENERATOR PARTS	BUS H3-28 DO YOU TROUBLESHOOT AS FAR AS CHE	TOTANGCTIONS OF GENERATORS IN COMPONENT PARTS OF GENERATORS.	EDB NI-DI DO YOU MORK WITH METERS IN YOUR	2	N 810 MI-US DO TOU CONCEPTUALIZE OF CONSIDER THE FUNCTIONS OF	MOVING COILS	N BII NI404 DO YOU CONCEPTUALIZE OR CONSIDER THE FUNCTIONS OF SPIRAL SPRINGS	812 41-05 30 YOU READ METER SCALES		814 41-07	ELS TITOL TOU ZERO AMETERS	OF VOLTME	THE SET OF THE CASE OF THE STATE OF THE STAT	"	A PELIFICAS IN YOUR PRESENT JOB N 619 (2-02 DO YOU INSPECT MAGNETIC AMPLIFIERS OR SATURABLE	ALACTORS OF CLEAN BIGHTTY AND INTERE OF CALLERY	Brack Lord	N 821 12-34 00 100 ADJUST MAGNETIC AMPLIFIERS OR SATURABLE	FLACTORS	N 622 42-05 DE 700 TROUBLESHOOT MAGNETIC AMPLIFIEMS OF SATURABLE	N 823 '2-GS DO YOU REMOVE OR REPLACE MAGNETIC AMPLIFIERS OR	SATINATE REACTORS SERVICE AND THE SATINATION OF THE PARTY AND THE SAME T	SAT JABILE HEACTOR COMPONENTS	

PCT MBRS RESPONDING . YES. BY SELECTED GRPS

GPSH42 PAGE 30

TASK GROUP SUMMARY

		DYATSK	250	25.0	0.80	2 2 3	0 6 50	0 0 0 0	057 0	0.00	0000	2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2	.	
2 Z	826 ×2 826 ×2 826 ×2	N2-09 DO YOU USE ON REFER TO HYSTERESIS CURVES ON LOOPS N2-09 DO YOU INTERPRET SCHEMATIC DRAWINGS TO DEVELOP OUTPUT MAYED DAYS ACROSS REACTOR MINDINGS OR LOAD RESISTORS OF SINCLE MINDING ATTURANT PRACTORS	• 2	4 =	• :		~ 0	o o	0.8	0 7	00	000	2.6	
z	827 K2	N2-10 DG YOU MEASURE OUTPUT WAVEFORMS ACROSS REACTOR MINOINGS OR LOAD RESISTORS OF SINGLE MINDING SATURABLE	13	=	9 -	*	13	53	25	52	0	0	\$	
z	828 N2	N2-11 OC YOU INTERPRET SCHEMATIC DRAWINGS TO DEVELOP OUTPUT ALVEROUND FOR MAGNETIC AMBITTION.	2	2	=	•		•	6,3	.,	0	0.0	,	
z	829 NZ	MATERIAL TO THE TANKER TO COERCIVE FORCE IN SATURABLE	~	•	0	-	О	0	05	20	0	90	D	
Z	830 NZ	NEATTONS NOTICES OF REFER TO RESIDUAL MAGNETISM IN	•	s	0	-		0	63	6.3	0	001	2	
z	831 N2	SATURABLE REACTORS N2-14 DE YOU USE OR REFER TO FLUX DENSITY IN SATURABLE	'n	۰	0	7	0	0	• 3	63	0	100	2	
z	832 NZ	NEASTONS NO USE OR REFER TO POINT OF SATURATION IN	,	1	•	*	7	0	7.5	75	0	100	0	
z	833 NZ	SATURABLE REACTORS NATIO TOU USE OR REFER TO SATURABLE REACTOR SCHEMATIC	2	13	•	•	=	23	75	15	0	001	•	
Z	834 N3	N3-01 DG YOU WORK WITH WAVESHAPING CIRCUITS IN YOUR PRESENT	F G	53	5.9	2	99	+ 9	75	7.5	0	100 5	3 WAVESHAPING	1
Z		DO TOU USE OR REFER TO THANS!	27	27	*	30	27	36	63		-		CIRCUITS	
z :	836 NJ		4 5 P	- s	6 0 9	÷ =	* 0	4 4 0 4	2,2	75	0 0	001	29	1
z		DO YOU USE ON REFER TO PULSE RECURRENCE	7	25	65	36	9	*	15	15			3 The State of the	
Z		TOU USE OR REFER TO DI	23	# :	32	54	32	36		15	0 0			
zz	941	43-07 00 YOU USE OF REFER TO THE CLASSIFICATION OF TIME	35	35	38	23	3 6	A	5 6	6.0		001	0 7	
Z	C 842 43	- 4	1.1	17	7	۰	-			6.3	0	1001	10	
		BASED ON THE TIME												
Z		OF YOU WORK WITH SQUARE WAVE	*	34	3.8	22	32	4.5	75	15		100	22	
Z	8 4 4 N N N N N N N N N N N N N N N N N	N3-11 C. YOU BORK MITH RECTANGULAR WAVE GENERATORS	2	22	25	5 ~	20	33	98	900	00	1	2 crucis	8
•	4	900							2					
0 0	0 6 4 6	DIRECT UP YOU INSPECT SSB TRANSMIT OF RECEIVE SYSTEMS				~ -	0 0	. .	00	5 5	0 5	00	C SIDEBAND	
0 0	649	TO ALLEN SER TRANSMIT OF RECEIVE			• •		0 0		o c		0	0	SYSTEMS	
00	849 01	TOU TROUBLESHOOT TO SSB TRANSHIT O	-	-	•	-	0	4	00	0	0	0		
0	850 01	SYSTEMS OL-DOS SOL YOU TROUBLESHOOT TO SSB TRANSMIT OR RECEIVE COMPONENTS	-	-	•	-	0	5	0	0	0	0	0	
0	851 01	01-07 D. YOU HEHOVE OR REPLACE SSB TRANSMIT OR RECEIVE	0	0	•	0	0	5	0	0	0	0	0	
0	852 01	COMPONENTS	-	-	•	-	0	2	0	0	0	0	0	

SER	
SELECTED	The same of the sa
5 BY	
. S31 . 9	
SPONDING	
a.	
MBRS	

GPSH4A PAGE 31

TASK GROUP SUMMARY
PERCENT HEMBERS PERFORMING

SPC						0 0 4 0	36 30 49 30 39 55 25 25 0 20 25 55	29 27 41 23 31 45 13 13 0 0 17 25 13 13 13 0 0 0 5 5 13 18 34 0 0 0 0 0 5 5 5 13 13 13 0 0 0 22 13 13 13 0 0 0 22 13 13 13 0 0 0 22 13 13 13 0 0 0 22 13 13 13 0 0 0 26 13 13 13 0 0 0 26 13 13 13 0 0 0 26 13 13 13 0 0 0 26 13 13 13 13 0 0 0 17 10 10 10 10 10 10 10 10 10 10 10 10 10	33 31 46 26 38 50 13 13 0 0 24 NODI	13 12 19 11 11 23 13 13 0 0 5 9UL 13 12 19 11 13 27 0 0 0 0 5	5 4 11 2 3 4 0 0 0 0 0 3	10 7 13 13 10 01
DY-TSK	01-19 DG YOU PERFORM TASKS ON SSB AUDJO AMP 01-10 DG YOU PERFORM TASKS ON SSB BALANCED 01-11 DG YOU PERFORM TASKS ON SSB CARRIER O 01-12 DG YOU PERFORM TASKS ON SSB LC FILTER 01-13 DG YOU PERFORM TASKS ON SSB RRYSALF	850 01-15 CO TOU PERFORM TASKS ON SSB OSCILLATORS 860 01-15 CO TOU PERFORM TASKS ON SSB MIXERS 861 01-17 OC TOU PERFORM TASKS ON SSB MIXERS 862 01-17 OC TOU PERFORM TASKS ON SSB POMER AMPLIFIERS 863 01-19 OC TOU PERFORM TASKS ON SSB POMER AMPLIFIERS	864 01-20 D6 700 PERFORM TASKS ON SSB FREQUENCY 865 01-21 D0 YOU PERFORM TASKS ON SSB FREQUENCY 865 01-22 D6 YOU PERFORM TASKS ON SSB D6MODULATO 865 01-23 D6 YOU PERFORM TASKS ON SSB D0N*T REME	0 668 01-24 00 700 USE OR REFER TO SELECTIVE FADING 0 669 01-25 00 700 USE OR REFER TO PEAK POWER 0 875 01-26 00 700 USE OR REFER TO FREQUENCY STABILITY 0 871 71-27 00 700 USE OR REFER TO RESPONSE CURVES FOR	DAMDWIDTH FILTERS 0 872 01=28 DO YOU CALCULATE PEAK POWER OR EFFECTIVE POWER OF 558 THANSMITTERS 0 873 01=29 DO YOU TRACE SIGNAIS OR CHRRENT PATHS THROUGH 558	B74 01-30 DO YOU TRACE SIGNALS ON CURRENT PATHS THROUGH SS	DO YOU WORK ON PULS	20000	HAI CZ-C7 DO YOU KENDY 884 UZ-U9 DO YOU KENDY	4000	SYSTEMS SYSTEMS SYSTEMS BE OZ-11 DO YOU MORK ON PULSE-POSITION MODULATION (PCM BE OZ-12 DO YOU MORK ON LINE PULSING MODULATION (PCM BY OZ-12 DO YOU MORK ON LINE PULSING MODULATION SY	MODULATION SYSTEM

-

TASK GROUP SUMMARY PERCENT MEMBERS PERFORMING

																										ANTE
SPC 063	17	9	•	0	15		1.1	11	77	•	11	•	77	1.1	•	52	15	52	7 7	17	7	15	0 1	20	52	= 3
246	0	0	0	0	0		0	0	0	0	0	0	0	0	0	0.2	20	200	2 2	20	20	50	50	20	50	00
200	0	0	9	0	0		0	0	0	0	9	0	٥	0	0	a	0	0 0	0	0	D	0	0	0	0	50
5PC 058	2	0	13	2	13		13	-		2	2	-	~	2	2	52	35	52	25	52	72	52	52	52	52	3.5
5 PC	13	O	13	-	=	:	13	-	-	13	2	13	13	13		35	25	52	25	25	52	25	3 2	52	52	63
3 6 0	36	27	32	32	12	;	36	7	;	32	4	32	3.	32	۰	5.5	4.5	9.	; ;	7		36	*_	3.	0 \$	
5 C 0 5 5	28	11	32	- 8	28	•	30	31	35	27	•	32	35	30	-	39	8 8	38	34	30	42	78	21	3.	38	7.5
SPC 054	21	2	21	17	13	:	20	23	**	91	•	30	33		٠	87	2.	92	7 9 2	5 4	51	20	01	54	27	7.0
5°C	35	54	32	27	23	:	•	35	36	30	F	30	35	30	•	4	35	*	32	30	9	32	=	38	;	8 8
5PC 052	52	•	27	•	•		7.	3.6	5.	20	52	7.0	9.7	23	•	35	29	33	1 6	28	-	27	-	3.	*	48
5PC 051	56	1.1	5.8	-	20	:	*	28	-	22	28	76	5.	54	•	3.6	30	35	7 6	52	-	78	•	32	36	78
07-75K	G 889 02-15 DO YOU PERFORM TASKS ON PULSE HODULATION SYSTEM	C 690 OZ-16 DO FORSTORM TASKS ON PULSE MODULATION SYSTEM	TASKS ON	U 892 02-18 DG YOU PERFORM TASKS ON PULSE MODULATION SYSTEM	TIMERS TIMERS OF THE MODILIATION SYSTEM	SEITCHES SUCH AS 6AS THYRATRONS	894 02-20 DO YOU PERFORM TASKS ON PULSE MODULATION SYSTEM	D 895 02-21 DO TOU PERFORM TASKS ON PULSE MODULATION SYSTEM	TRANSMITTER TUBES US 996 02-22 DO YOU PERFORM TASKS ON PULSE MODULATION SYSTEM RF	D 897 02-23 DO YOU PERFORM TASKS ON PULSE MODULATION SYSTEM	FREGUENCY CONVERTERS 0 898 02-24 DO YOU PERFORM TASKS ON PULSE MODULATION SYSTEM	O 899 02-25 DO YOU PERFORM TASKS ON PULSE MODULATION SYSTEM	U 900 02-26 DO TOU PERFORM TASKS ON PULSE MODULATION SYSTEM	0 901 02-27 DO YOU PERFORM TASKS ON PULSE MODULATION SYSTEM	FOREX VIDEO AMPLITIENS 0 902 02-28 DO YOU FERFORM TASKS ON FULSE MODULATION SYSTEM 5 502-28 DO YOU FERFORMER WHICH PULSE MODULATION SYSTEM	U 903 02-29 DO YOU USE OR REFER TO PULSE RECURRENCE FREQUENCY	904 02-30 00 100 USE OR REFER TO PULSE	02-31 DO YOU USE OR REFER TO	POT 02-13 DO YOU USE OR REPER TO PEAK P	908 02-34 DO TOU USE OF REFER TO AVERAGE POWER	U 909 02-35 DU YOU CALCULATE PULSE RECURRENCE TIME (FRT) OR FULSE. Recurrence frequency (PRF)	3	0 911 02-37 DO TOU USE FORMULAS TO CALCULATE AVERAGE POWER OR	0 912 02-38 00 YOU TRACE SIGNALS OR CURRENT PATHS THROUGH PULSE	MOTULATION TRANSMITTER SCHEMATIC DIAGRAMS O 913 02-39 DO TOU TRACE SIGNALS OR CURRENT PATHS THROUGH PULSE MODULATION RECEIVER SCHEMATIC DIAGRAMS	U 914 03-01 00 YOU WORK WITH ANTENNAS IN YOUR PRESENT JOB

+

50 C

	X 0.1 - 7 - 0	SPC 0.51	5 P C	540	S 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	0.50
		3	63	,,	:	
016	OBJUST OF YOU PHYSICALLY A	10	4	2,4	0	-
	03-05 DO YOU	11	6.9	8	1	-
	03-06 DU YOU TROUBLESHOOT TO ANTENNAS	75	7.4	9	0	1
	03-07 DO YOU TROUBLESHOOT	•	*	16	9	1
	03-09 OF YOU RENC	7.3	7.2	16	19	10
	03-09 00 YOU REHO	6.5	9		9	7
	ac You USE	9	•	9	=	
	SENTATIONS					
0 924	350 NOT OG 11-EG	5	- 2	9 !	01	
	GNETIC FIELD LINES					
0 925	03-12 DO YOU DETERMINE THE DIRECTION OF THE MAGNETIC LI	=	=	-	1	
024	THE RELEATION TO THE ELECTRIC LINES OF FORCE FOR ANTENNAS	0	13	~	01	
	ANTENNAS WHI		:	,	2	
	INDUCTIVE LOADS TO THE GENERATOR					
176 0	RULE THAT ANTEN	•	2	'n	۰	-
	WHICH ARE LONGER THAN A MALFINANT ACT AS INDUCTIVE LOADS					
020	TO THE GENERATOR OR DEFEND TO THE GENERAL BUILD THAT ANDERED	x	z	ď	4	
:	WHICH ARE SHORTER THAN A HALF-WAVE ACT A			,		
	THE SENERATOR					
	03-16 DO YOU WORK WITH HERTZ ANTENNAS	?	-	=	7	
0 6 0	OJ-17 DO YOU WORK WITH	~ "	7 1	n (
	TANK JOING MAIN WITH MACH DOL OO SILED	n a	n :-		0 1	
432	200 DO 100 DO 10	0 4	. 1			
	TITE NOON 100 00 17-10	•	• •		. 0	
0.3	US-22 SU YOU USE OR REFER TO THE TERM	- 00	1			
	INCOLTION FIELDS WHEN WORKING WITH AN					
0 036	C	1	•	=	•	
0 437	DELLA DU YOU USE ON REFER TO THE TERM ELECTRONAGNETIC	-	13	22	•	_
6 2 3		-	,	•		
	FILLUS OF ANTENNAS			•		
0 939	03-20 UG TOU USE OR REFER TO	٠	20	1.6	•	
	N ANTENNA RADIATION					
0 240	104-27 DO TOU USE OF REPERT TO THE TIME PIASE OF ELECTRIC (E)	30	•	*	s	
10	A EXCENT ACCURATE ACC	3.6	35	20	4	
			;		,	
745 0	C	Ŧ	37	29	57	
	PULAMI2ED		-		1	
0 440	TO THE POLYTON MEASONE OF DETERMINE THE POLARITY OF ANTENNAS	52	~	0	7	0
*** 0		*	7	٣	*	

0.8

•

- PCT MBRS RESPONDING .YES' BY SELECTED GRPS

TASK GROUP SUMMANY PERCENT MEMBERS PERFORMING

946 91-23 0. THE ANTENNA AMARYS TOU WORK WITH CONTAIN PARASITIC 11 9 24 7 7 23 113 12 0 20 0 3 1 0 2 1	SPC											531	רוו	NO19	SIM	2NA)	81											
946 01-21 No. 17 E ANTENAA ARRAYS TOW WORK WITH CONTINU PARASITIC 11 9 22 7 2 13 13 13 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	SPC 51-23 No. The Antiena Annals Tow work with Contain Parasitic 11	0 6 3				-	52	-				•	•	•		•	•	~,		•	_	5	2	•	•	•	•	^
945 03-32 OL THE ANTERNA AMARTS TOU UORK WITH CONTAIN PARASITIC 11 9 22 7 7 23 13 13 13 13 13 13 13 13 13 13 13 13 13	05-12 20, THE ANTERNA AMARTS TOU UORK WITH CONTAIN PARASITIC 111 7 22 11 10 13 13 13 13 13 13 13 13 13 13 13 13 13	140	20	20	20	0	•	•	00	1		0.	0	4	}	•	•	0 9	20	•	20	0 5		\$	9	20	•	•
915 03-32 30, THE ANTENNA AMAN'S TOU WORK WITH COMPANY PARASITIC 11 7 22 7 7 23 13 13 13 14 15 15 15 15 15 15 15 15 15 15 15 15 15	945 03-32 OL THE ANTENA AMARS TOU WORK WITH COMPANY PARASITIC 11 9 22 97 7 23 13 13 13 14 15 15 15 15 15 15 15 15 15 15 15 15 15	0 0	0	٥	0	٥	0	0	90	P		٥	0	c	•	5	0	00	0	0	0	0 0	•	0	0	0	٥	9
### 503-12 0.0 THE ANTENAA ARMYS TOU WORK 4TH CONTAIN PARASITIC 11 7 22 7 7 23 944 503-12 0.0 THE ANTENAA ARMYS TOU WORK 4TH CONTAIN PARASITIC 11 7 22 7 7 2 3 944 503-13 0.0 THE ANTENAA ARMYS TOU WORK 4TH CONTAIN PARASITIC 11 8 22 7 7 6 2 3 94 10 10 10 10 10 10 10 10 10 10 10 10 10	### 503-12 0.0 THE ANTENAA ARRAYS TOW WORK WITH CONTAIN PARASITIC 11 9 22 9 7 23 944 503-13 0.0 THE ANTENAA ARRAYS TOW WORK WITH CONTAIN PARASITIC 11 9 22 9 7 2 3 944 503-13 0.0 THE ANTENAA ARRAYS TOW WORK WITH CONTAIN PARASITIC 11 9 22 11 10 11 9 2 9 9 9 9 9 9 9 9 9 9 9 9 9 9 9 9	0.50	2	=	-	2	52	3.0	0 0	0			•	3	:	20	9	0	25	36	52	7 0	2	38	80	52	52	52
945 03-32 00. THE ANTENNA ARRAYS TOU MORK MITH CONTAIN PARASITIC 11 9 22 9 7 6 6 6 6 13-33 00. THE ANTENNA ARRAYS TOU WORK MITH CONTAIN PARASITIC 11 9 22 9 7 6 6 6 6 13-33 00. THE ANTENNA ARRAYS TOU WORK MITH CONTAIN PARASITIC 11 0 24 7 6 6 6 6 13-33 00. THE ANTENNA ARRAYS TOU WORK MITH CONTAIN PARASITIC 11 10 24 7 6 6 6 13-35 00. THE ANTENNA ARRAYS TOU WORK MITH CONTAIN PARASITIC 11 10 24 7 9 13-35 00 00 00 00 00 00 00 00 00 00 00 00 00	945 03-32 00. THE ANTENNA ARRAYS TOU HORK AITH CONTAIN PARASITIC 11 9 22 9 7 6 6 6 13-33 00. THE ANTENNA ARRAYS TOU HORK AITH CONTAIN PARASITIC 11 9 22 9 7 6 6 6 13-33 00. THE ANTENNA ARRAYS TOU HORK MITH CONTAIN PARASITIC 11 0 24 7 6 6 6 13-33 00. THE ANTENNA ARRAYS TOU HORK MITH CONTAIN PARASITIC 11 10 24 11 10 24 11 10 24 12 13 13 13 13 13 13 13 13 13 13 13 13 13	5PC 057	13	-		13	25	28	0 0	0	3	38	3.8	3	3	0	90	0 6	25	8	25	23	•	38	20	25	? 2	35
945 03-32 OU THE ANTENNA ARRA'S TOW WORK WITH CONTAIN PARASITIC 11 9 22 9 6 03-32 OU THE ANTENNA ARRA'S TOW WORK WITH CONTAIN PARASITIC 11 9 22 9 6 03-32 DO THE WITENA ARRA'S TOW WORK WITH CONTAIN PARASITIC 11 9 22 9 9 03-32 DO THE WITENA ARRA'S TOW WORK WITH CONTAIN PARASITIC 11 9 22 9 9 03-32 DO THE WITENA ARRA'S TOW WORK WITH CONTAIN PARASITIC 11 9 22 9 9 03-32 DO THE WITENA ARRA'S TOW WORK WITH CONTAIN PARASITIC 11 9 22 9 9 03-32 DO THE WITH THE WORK WITH CONTAIN PARASITIC 11 9 22 9 9 03-32 DO THE WITH THE WORK WITH CONTAIN PARASITIC 11 9 22 9 9 03-32 DO THE WITH THE WORK WITH THE WORK WITH THE WITH THE WITH THE WITH THE WITH THE WORK WITH THE WORK WITH THE WITH THE WITH THE WITH THE WITH THE WORK WITH THE WORK WITH THE WITH THE WITH THE WITH THE WITH THE WORK WITH THE WI	915 23-12 OF THE ANTERNA ARRAYS YOU WORK MITH CONTAIN PARASITIC 11 9 22 9 12 12 13 13 13 13 13 13 13 13 13 13 13 13 13	056	23	23	-	7	32	-	35	-		v:	a	•		Δ	•	0	00	•	v	un u	,	'n	v	v	'n	.s
94. 93-32 OK THE ANTERNA ARRATY TOU WORK MITH CONTAIN PARASITIC 11 9 22 ELEMENTS ERRINGA ARRATY TOU WORK MITH CONTAIN PARASITIC 11 9 22 ELEMENTS ERRINGA ARRATY TOU WORK MITH CONTAIN PARASITIC 11 9 22 ELEMENTS ERRINGA ARRAY TOU WORK MITH CONTAIN PARASITIC 11 9 24 ELEMENTS ERRINGA ARRAY TOU WORK MITH CONTAIN PARASITIC 11 9 24 ELEMENTS ERRINGA ARRAY TOU WORK MITH CONTAIN PARASITIC 11 9 24 ELEMENTS ERRINGA ARRAY TOU WORK MITH CONTAIN PARASITIC 11 9 24 ELEMENTS ERRINGA ARRAY TOU WORK MITH CONTAIN PARASITIC 11 9 22 ELEMENTS ERRINGA ARRAY TOU WORK MITH CONTAIN PARASITIC 11 9 24 ELEMENTS ERRINGA ARRAY TOU WORK MITH CONTAIN PARASITIC 11 9 24 ELEMENTS ERRINGA ARRAY TOU WORK MITH CONTAIN PARASITIC 11 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	945 03-12 Or THE ANTERNA ARRATY TOU WORK MITH CONTAIN PARASITIC 11 9 22 ELEMENTS ERRINGA ARRATY TOU WORK MITH CONTAIN PARASITIC 11 9 22 ELEMENTS ERRINGA ARRATY TOU WORK MITH CONTAIN PARASITIC 11 9 24 ELEMENTS ERRINGA OF SOURCETON TO WORK MITH CONTAIN PARASITIC 11 9 24 ELEMENTS ERRINGA OF SOURCETON TO WORK MITH CONTAIN PARASITIC 11 10 24 ELEMENTS ERRINGA OF MICHESTORY TO WORK MITH CONTAIN POWLT 27 2 2 24 43 ELEMENTS ERRINGA OF MICHESTORY THE DIRECTIONALITY 27 2 2 2 2 4 43 ELEMENTS ERRINGA OF MICHESTORY THE DIRECTIONALITY 27 2 2 2 2 4 43 ELEMENTS ERRINGA OF MICHESTORY THE DIRECTIONALITY 27 2 2 2 2 4 43 ELEMENTS ERRINGA OF MICHESTORY THE DIRECTIONALITY 27 2 2 2 2 4 43 ELEMENTS ERRINGA OF MICHESTORY THE DIRECTIONALITY 27 2 2 2 2 4 43 ELEMENTS ERRINGA OF MICHESTORY THE DIRECTIONALITY 27 2 2 2 2 4 43 ELEMENTS ERRINGA OF MICHESTORY THE DIRECTIONALITY 27 2 2 2 2 4 43 ELEMENTS ERRINGA OF MICHESTORY THE DIRECTIONALITY 27 2 2 2 2 4 43 ELEMENTS ERRINGA OF MICHESTORY THE DIRECTIONALITY 27 2 2 2 2 4 43 ELEMENTS ERRINGA OF MICHESTORY THE DIRECTIONALITY 27 2 2 2 2 4 43 ELEMENTS ERRINGA OF MICHESTORY THE DIRECTIONALITY 27 2 2 2 2 4 43 ELEMENTS ERRINGA OF MICHESTORY THE DIRECTIONALITY 27 2 2 2 2 4 43 ELEMENTS ERRINGA OF MICHESTORY THE DIRECTIONALITY 27 2 2 2 2 4 43 ELEMENTS ERRINGA OF WITH THE TO MICHESTORY THE DIRECTIONALITY 27 2 2 2 2 4 43 ELEMENTS ERRINGA OF WITH THE TOD MICHESTORY THE DIRECTION THE DIRECTIO	5 P C	^	•	0	28	25	-	20 .	75		•	*	:	•	^	0	<u> </u>	- 0	25	- 3		0	^	=	^	•	•
945 03-27 00 THE ANTENNA ARRAYS TOU WORK WITH CONTAIN PARASITIC 11 9 946 02-27 00 THE ANTENNA ARRAYS TOU WORK WITH CONTAIN PARASITIC 11 0 16 162 1647 5 SENTING AS DIEFECTORS 947 03-24 00 TOU WORK WATT KIND OF LERREYS 948 03-25 00 TOU WORK ON UNDIRRECTIONAL ANTENNA ARRAYS TOU WORK WITH CONTAIN DON'T 27 24 949 03-24 00 TOU WORK ON UNDIRRECTIONAL ANTENNA ARRAYS TOU WORK WITH TOW THE DIRECTIONAL ATTENNAS 950 03-25 00 TOU WORK ON UNDIRRECTIONAL ATTENNAS 950 03-25 00 TOU WORK WITH THE AREA TO WORK WITH TANKINGS TO THE TOW THE ARRAYS TOU WORK WITH THE ATTENNAS TO THE ARRAYS TOW WORK WITH THE ARRA	945 03-27 01 THE ANTENNA ARRAYS TOU WORK WITH CONTAIN PARASITIC 11 9 946 03-27 02 THE ANTENNA ARRAYS TOU WORK WITH CONTAIN PARASITIC 11 0 14. 03-28 02 THE ANTENNA ARRAYS TOU WORK WITH CONTAIN PARASITIC 11 0 15. 03-29 02 TOU WORK ON DOING THE PARASITIC 11 0 15. 03-20 02 TOU WORK ON DOING THE ANTENNA ARRAYS TOU WORK WITH CONTAIN DOINT 27 24 15. 03-29 02 TOU WORK ON DOING THE ANTENNA ARRAYS TOU WORK WITH CONTAIN DOINT 27 15. 03-29 02 TOU WORK ON DOING THE ANTENNA ARRAYS TOU WORK WITH TO ANTENNA ARRAYS TO ANTENNA A	05.0	٠	1	Ξ	3	22	13	22	1		~	*	ď		Δ	•			15	=	=	•	٥	N	*	-	0
945 03-32 00 THE ANTENNA ARRAYS TOU WORK MITH CONTAIN PARASITIC ELEKTYS SERVING AS DIRECTORS 940 03-33 00 THE ANTENNA ARRAYS TOU WORK MITH CONTAIN PARASITIC ELEKTYS SERVING AS DIRECTORS 947 03-34 70 THE ANTENNA ARRAYS TOU WORK MITH CONTAIN PARASITIC ELEKTYS SERVING AS DIRECTORS 948 03-35 00 THE ANTENNA ARRAYS TOU WORK MITH CONTAIN PARASITIC ELEKTYS SERVING AS DIRECTORS 949 03-35 00 THE ANTENNA ARRAYS TOU WORK MITH CONTAIN PARASITIC 10 03-35 00 THE ANTENNA ARRAYS TOU WORK MITH CONTAIN POW'T 949 03-35 00 THE ANTENNA ARRAYS TOU WORK MITH CONTAIN POW'T 10 03-35 00 THE ANTENNA ARRAYS TOU WORK MITH CONTAIN PARASITIC 10 03-35 00 THE ANTENNA ARRAYS TOU WORK MITH CONTAIN PARASITIC 11 03-35 00 THE ANTENNA ARRAYS TOU WORK MITH CONTAIN PARASITIC 12 03-35 00 THE ARRAYS TOU WORK MITH REPRESENT ARRAYS 13 03-35 00 THE ARRAYS TOU WORK MITH ARRESSED ARRAYS 14 03-35 00 THE ARRAYS TOU WORK MITH ARRESSED ARRAYS 15 03-35 00 THE ARRAYS TOU WORK MITH THE ARRAYS 16 03-35 00 THE ARRAYS TOU WORK MITH THE ARRAYS TO ARRAYS TO ARRAYS 17 04-35 00 THE ARRAYS TOU WORK MITH THE ARRAYS TO ARRAYS TO ARRAYS 16 04-36 00 THE ARRAYS TOU WORK MITH THE ARRAYS TO ARRAYS TO ARRAYS TO ARRAYS 17 04-36 00 THE ARRAYS TO ARR	945 03-32 00 THE ANTENNA ARRA'S TOU WORK MITH CONTAIN PARASITIC ELEKTRIS SERVING AS DIRECTORS 944 03-33 00 THE ANTENNA ARRA'S TOU WORK MITH CONTAIN PARASITIC ELEKTRIS SERVING AS DIRECTORS 947 03-34 70 THE ANTENNA ARRA'S TOU WORK WITH CONTAIN PARASITIC ELEKTRIS SERVING AS DIRECTORS 948 03-35 00 THE ANTENNA ARRA'S TOU WORK WITH CONTAIN DON'T 10 03-35 00 THE ANTENNA ARRA'S TOU WORK WITH CONTAIN DON'T 949 03-35 00 THE ANTENNA ARRA'S TOU WORK WITH CONTAIN DON'T 949 03-35 00 THE ANTENNA ARRA'S TOU WORK WITH CONTAIN DON'T 949 03-35 00 THE ARRA'S TOU WORK ON DON'T PREPARED 949 03-35 00 THE ARRA'S TOU WORK ON DON'T PREPARED 949 03-35 00 TOU WORK ON DON'T PREPARED 1 TRANSHISSION LINES ARE COPPER LOSS IN TRANSHISSION 1 TRANSHISSION LINES 950 03-30 00 TOU WEER TO ON USE COPPER LOSS IN TRANSHISSION 1 TRANSHISSION LINES 951 03-00 TOU WEER TO ON USE COPPER LOSS IN TRANSHISSION 1 TRANSHISSION LINES 952 03-00 TOU WEER TO ON USE COPPER LOSS IN TRANSHISSION 1 TRANSHISSION LINES 959 03-00 TOU WEER TO ON USE COPPER LOSS IN TRANSHISSION 1 TRANSHISSION LINES 950 03-00 TOU WEER TO ON USE COPPER LOSS IN TRANSHISSION 1 TRANSHISSION LINES 950 03-00 TOU WEER TO ON USE COPPER LOSS IN TRANSHISSION 1 TRANSHISSION LINES 950 03-00 TOU WEER TO ON USE COPPER LOSS IN TRANSHISSION 1 TRANSHISSION LINES 950 03-00 TOU WEER TO ON USE COPPER LOSS IN TRANSHISSION 1 TRANSHISSION LINES 950 03-00 TOU WEER TO ON USE COPPER TO LEAKAGE LOSSES IN TRANSHISSION 1 TRANSHISSION LINES 950 03-00 TOU WEER TO ON USE COPPER TO LINES 951 03-00 TOU WEER TO ON USE COPPER TO LINES 952 03-00 TOU WEER TO ON USE COPPER TO LINES 953 03-00 TOU WEER TO ON USE COPPER TO LINES 954 03-00 TOU WEER TO ON USE COPPER TO LINES 955 03-00 TOU WEER TO ON USE COPPER TO LINES 955 03-00 TOU WEER TO ON USE COPPER TO LINES 956 03-00 TOU WEER TO ON USE COPPER TO LINE 957 03-00 TOU WEER TO ON USE COPPER TO LINE 958 03-00 TOU WEER TO ON USE COPPER TO LINE 959 03-00 TOU WEER TO ON USE COPPER TO LINE 959 03-00 TOU WEER TO ON USE COPPER TO LINE 950 03-00 T	0.50	22	24	22	38	,	-	2:	*		~	-	J	1	0	7	•	9 9	•	•	-	•	•	1	0	c	0
04-13. 0. THE ANTENNA ARRAYS YOU WORK WITH CONTAIN PARASITIC ELECTRIS SERVING AS DECTORS 946 03-33 DO THE ANTENNA ARRAYS YOU WORK WITH CONTAIN PARASITIC ELECTRIS SERVING AS REFLECTORS 947 03-33 DO THE ANTENNA ARRAYS YOU WORK WITH CONTAIN PARASITIC ELECTRIS SERVING AS REFLECTORS 948 03-35 DO THE ANTENNA ARRAYS YOU WORK WITH CONTAIN PARASITIC ELECTRIS SERVING AS REFLECTORS WITH CONTAIN PARASITIC	945 03-32 00 THE ANIENNA ARRAYS YOU WORK WITH CONTAIN PARASITIC ELEMINS SERVING AS DIRECTORS 949 03-33 DO THE ANIENNA ARRAYS YOU WORK WITH CONTAIN PARASITIC ELEMINS SERVING AS PRECTORS 949 03-35 DO THE ANIENNA ARRAYS YOU WORK WITH CONTAIN PARASITIC ELEMINS SERVING AS PRECTORS 940 03-35 DO THE ANIENNA ARRAYS YOU WORK WITH CONTAIN PARASITIC ELEMINS SERVING AS PRECTORS 940 03-35 DO THE ANIENNA ARRAYS YOU WORK WITH CONTAIN PARASITIC PARASITIC ANIENNA ARRAYS YOU WORK WITH CONTAIN PARASITIC ELEMENS OF ANIENNA ARRAYS YOU WORK WITH CONTAIN PARASITIC ELEMENS OF ANIENNA ARRAYS YOU WORK WITH MANASITIC BEST OF ANIENNA ARRAYS AND ANIENNA ANIENNA 951 03-35 DO TOW WORK ON OWN DIRECTIONAL ANIENNA 952 03-39 DO TOW WORK ON OWN DIRECTIONAL ANIENNA 953 03-39 DO TOW WORK ON OWN DIRECTIONAL ANIENNA 954 03-39 DO TOW WORK ON OWN DIRECTIONAL ANIENNA 955 03-39 DO TOW WORK ON OWN DIRECTIONAL ANIENNA 956 03-30 DO TOW WORK WITH MISS ARE DEFINED TO INCLUDE LEADS. 956 07-30 DO TOW WORK WITH THISTED PAIR TRANSMISSION LINES 957 03-05 DO TOW WORK WITH THISTED PAIR TRANSMISSION LINES 958 07-05 DO TOW WORK WITH THISTED PAIR TRANSMISSION LINES 959 07-05 DO TOW WORK WITH THISTED PAIR TRANSMISSION LINES 950 07-00 WORK WITH THISTED PAIR TRANSMISSION LINES 950 07-00 WORK WITH PER TO DEFECTIVE THE WASHINGTON LINES 951 07-00 WORK WITH PER TO DEFECTIVE THE WASHINGS ON LINE 958 07-10 DO TOW WORK WITH PER TO DEFECTIVE THE WASHINGS ON LINES 959 07-10 DO TOW WORK WITH PER TO DEFECTIVE THE WASHINGS ON LINES 950 07-10 WORK WITH PER TO DEFECTIVE THE WASHINGS ON THE WASHINGS ON LINES 950 07-10 WORK WITH PER TO DEFER TO SEMBLY THE WASHINGS ON LINE 959 07-10 DO TOW WORK WITH PER TO SEMBLY TO SEMBLY THE WASHINGS ON LINES 950 07-10 WORK WITH PER TO DEFER WASHINGS ON LINE 950 07-10 WORK WITH PER TO DEFER WASHINGS ON LINE 950 07-10 WORK WITH PER TO DEFER WASHINGS ON LINE 950 07-10 WORK WITH PER TO DEFER WASHINGS ON LINE 950 07-10 WORK WITH PER TO SEMBLY THE WASHINGS ON LINE 950 07-10 WORK WITH PER TO SEMBLY TO SEMBLY THE WASHINGS ON LINE 950 07-10 WORK WITH PER TO DEF	5 PC	•	•	2	2.8	7	-	5 -	-		•	•	-	: '	•	0	~ .	· w	<u>-</u>	=	.5		v	01	•	•	•
DY-TSK 945 03-32 00 THE ANTENNA ARRAYS YOU WORK MITH CONTAIN 946 03-33 00 THE ANTENNA ARRAYS YOU WORK MITH CONTAIN 947 03-34 00 THE ANTENNA ARRAYS YOU WORK MITH CONTAIN 948 03-35 00 THE ANTENNA ARRAYS YOU WORK MITH CONTAIN 948 03-35 00 THE ANTENNA ARRAYS YOU WORK MITH CONTAIN 948 03-35 00 THE ANTENNA ARRAYS YOU WORK MITH CONTAIN 949 03-36 00 THE ANTENNA ARRAYS YOU WORK MITH CONTAIN 949 03-36 00 THE ANTENNA ARRAYS YOU WORK MITH CONTAIN 949 03-37 00 YOU WORK ON UNIDIRECTIONAL ANTENNA 950 03-37 00 YOU WORK ON UNIDIRECTIONAL ANTENNA 951 03-38 00 TOU WORK WITH ROLAR ANTENNA 952 03-37 00 YOU WORK WITH ROLAR ANTENNA 953 03-37 00 YOU WORK WITH ROLAR 954 PI-01 TO YOU WORK WITH ROLAR 955 PI-02 DO YOU REFER TO OR USE COPPER LOSS ON 12R LO 955 PI-03 00 YOU WEFER TO OR USE SKIN EFFECTS OF HIGH 956 PI-03 DO YOU WEFER TO OR USE SKIN EFFECTS OF HIGH 956 PI-04 OD YOU WORK WITH TWISTED PAIR TRANSHISSION LINES 956 PI-05 ON YOU WORK WITH TWISTED PAIR TRANSHISSION LINES 956 PI-05 ON YOU WORK WITH TWISTED PAIR TRANSHISSION LINES 957 PI-05 ON YOU WORK WITH THE LIBE COANIAL CABLE TRANSHISSION LINES 958 PI-16 US YOU WORK WITH RIGHD COANIAL CABLE TRANSHISSION LINES 959 PI-16 US YOU WORK WITH RIGHD COANIAL CABLE TRANSHISSION LINES 956 PI-16 US YOU WORK WITH RIGHD COANIAL CABLE TRANSHISSION LINES 957 PI-16 US YOU WORK WITH RIGHD COANIAL CABLE TRANSHISSION LINES 958 PI-16 US YOU WORK WITH RIGHD COANIAL CABLE TRANSHISSION LINES 958 PI-16 US YOU WORK WITH RIGHD COANIAL CABLE TRANSHISSION LINES 958 PI-16 US YOU WORK WITH RIGHD COANIAL CABLE TRANSHISSION LINES 958 PI-17 ON YOU SELECT REPROPERED TO RUNESSON TO TRANSHISSION LINES 958 PI-18 US YOU WORK WITH RIGHD COANIAL STRONG WAVE RATIOS (SWR) 959 PI-18 US YOU WORK WITH CALCULATIONS WAVE RATIOS (SWR) 950 PI-18 US YOU WORK WITH CALCULATIONS WAVE RATIOS (SWR) 950 PI-18 US YOU WORK WITH CALCULATIONS OF DETERMINED THE WASHINGTON THE WAY CALCULATE TRANSHISSION LINES 950 PI-18 US YOU WORK WITH CALCULATE TRANSHISSION LINES 951 PI-18 US YOU WORK WITH CALCULATE TRANSHI	DY-TSK 945 03-32 DG THE ANTENNA ARRAYS YOU WORK MITH CONTAIN 946 03-33 DG THE ANTENNA ARRAYS YOU WORK MITH CONTAIN 148 03-33 DG THE ANTENNA ARRAYS YOU WORK MITH CONTAIN 148 03-35 DG THE ANTENNA ARRAYS YOU WORK MITH CONTAIN 148 03-35 DG THE ANTENNA ARRAYS YOU WORK MITH CONTAIN 148 03-35 DG THE ANTENNA ARRAYS YOU WORK MITH CONTAIN 148 03-35 DG THE ANTENNA ARRAYS YOU WORK MITH CONTAIN 148 03-37 DG THE ANTENNA ARRAYS YOU WORK MITH CONTAIN 148 03-37 DG THE ANTENNA ARRAYS YOU WORK WITH CONTAIN 148 03-37 DG TOU WORK ON UNIDIRECTIONAL ANTENNA 158 03-37 DG TOU WORK ON BIDIRECTIONAL ANTENNA 158 03-37 DG TOU WORK WITH ROLAS ATTERNA ARRAYS 159 03-37 DG TOU WORK WITH ROLAS ATTERNA 159 03-37 DG TOU WORK WITH ROLAS 150 03-37 DG TOU WORK WITH ROLAS 150 03-37 DG TOU WERE TO OR USE COPPER LOSS ON 12 M LOS 150 03-37 DG TOU WERE TO OR USE SKIN EFECTS OF HIGH 150 05 DG TOU DG TOU WERE TO OR USE SKIN EFECTS OF HIGH 150 05 DG TOU WORK WITH TWISTED PAIR TRANSHISSION LINES 150 05 DG TOU WORK WITH THISTED TRANSHISSION LINES 151 05 DG TOU WORK WITH THISTED TRANSHISSION LINES 151 05 DG TOU WORK WITH THISTED TRANSHISSION LINES 152 05 DG TOU WORK WITH THISTED TRANSHISSION LINES 153 05 DG TOU WORK WITH THISTED TO THE TRANSHISSION LINES 154 05 DG TOU WORK WITH THISTED TO THE TRANSHISSION LINES 155 07 DG TOU WORK WITH THISTED TRANSHISSION LINES 156 07 DG TOU WORK WITH THISTED TO THE TRANSHISSION LINES 157 07 DG TOU WORK WITH THISTED TO THE TRANSHISSION LINES 158 07 DG TOU WORK WITH THISTED TO THE TRANSHISSION LINES 158 07 DG TOU WORK WITH THISTED TO THE TRANSHISSION LINES 158 07 DG TOU WORK WITH THISTED TO THE TRANSHISSION LINES 158 07 DG TOU WORK WITH THISTED TO THE TRANSHISSION LINES 158 07 DG TOU WORK WITH THISTED TO THE TRANSHISSION LINES 158 07 DG TOU WORK WITH THISTED TO THE TRANSHISSION LINES 158 07 DG TOU WORK WITH THISTED TO THE TRANSHISSION LINES 158 07 DG TOU WORK WITH THISTED TO THE TRANSHISSION LINES 158 07 DG TOU WORK WITH THISTED TO THE TRANSHISSION LINES 158 07 DG TOU WORK WITH THISTED TO T	260	=	=	5	30	27	•	* 5	-		'n	J.	•		•	2	•	• •	•	=	5 7	•	*	20	S	7	•
o o o o o o o o a a a a a a a a a a a a		DY=15K	03-32 00 THE ANTENNA ARRAYS YOU WORK WITH CONTAIN	03-33 DO THE ANTENNA ARRAYS YOU WORK WITH CONTAIN FLEHENTS SERVING AS DIRECTORS	COSTA DE THE ANTENNA ARRAYS YOU WORK WITH CONTAIN	03-35 DO THE ANTENNA ARRAYS YOU WORK WITH CONTAIN	PENEMBER WHAT KIND OF ELEMENTS 03-36 00 YOU WORK ON UNIDIRECTIONAL	03-37 DU YOU WORK ON BIDIR	03-38 DC YOU WORK ON DON'T	PI-OI IN TOUR PRESENT JOB	S ARE DEFINED TO INCLUDE LET TENNAS, TELEPHONE LEADS, AS WES, ETC. DO NOT CONSIDER ON LINES	PI-UZ DO YOU REFER TO OR USE COPPER LOSS ON 124 LOSS	TAANSMISSION LINES PI-03 DO YOU REFER TO OR USE SKIN EFFECTS OF	CURRENTS IN TRANSMISSION LINES	SIZE	TRANSMISSION LINES	PI-06 DO YOU USE OF REFER TO LEAKAGE LOSSES	PI-07 00 YOU WORK WITH TWISTED PAIR	PI-US DE YOU WORK WITH OPEN TWO-WIRE TRANSMISS	PI-10 UD YOU WORK WITH FLEXIBLE COAXIAL CABLE LINES	PI-II OC YOU NORK WITH RIGID COAXIAL	PI-12 DE YOU TRUBLESHOOT TRANSM	TANDAR GSUON LINES TO DETERMINE THE OF	PITT OF YOU SELECT APPROPRIATE TRANSMISSION TEXTS OF YOU SELECT APPROPRIATE TRANSMISSION TEXTS OF ACTIONS TO ACTION DISCUSSION TAXABLE TRANSMISSION TEXTS OF TAXABLE TRANSMISSION TO ACTION TO ACT	TERMINITIONS IN TERMS OF CIRCUIT TERMINITIONS	PI-16 DE YOU MEASURE STANDING MAVE RATIOS (SR)	PI-17 DO YOU CALCULATE STANDING MAYE RATIOS (SWR)	PI-18 DU YOU PERFORM THE CALCULATIONS NECESSARY TO DETERMINE THE IMPEDANCE AND LENGTH OF QUARTER - MAYELENGTH ATCHING TRANSMISSION LINES TO LOAD

PCT MBRS RESPONDING .YES' BY SELECTED GRPS

SPSH4A PAGE

TASK GROUP SUMMANY PERCENT PENBERS PERFORMING

SPC	0 5 5 5 0 7 0 13 13 0 20 3	3 3 0 0 4 0 25 25 0 20 3	2 2 5 0 3 0 0 0 0 0 3	9 09 0 05 05 0 4 1 6 9 9	F 2 3 0 0 1 0 25 25 0 40 3	3 3 0 1 3 0 25 25 0 40 2	2 2 0 0 1 0 2 ₅ 25 0 40 2	4 5 0 1 4 0 25 25 0 40 5	2 3 0 0 4 0 13 13 0 20 2	5 09 0 05 05 0 9 0 0 9 5	2 2 3 1 3 0 13 13 0 0 2	5 5 5 5 4 0 13 13 0 0 4 5 5 5 5 5 5 5 5 5 5 5 5 5 5 5 5 5	75 73 86 73 77 82 50 50 50 40 75	68 66 78 71 76 77 25 25 50 0 68 44 41 59 46 44 55 25 25 25 50 0 36 20 21 16 20 24 14 13 13 0 0 0 22 25 26 29 11 12 24 13 13 0 0 0 22 26 29 11 22 46 5 13 13 0 0 0 14 15 14 15 13 13 0 0 14 15 14 15 15 15 15 15 15 15 15 15 15 15 15 15	21 22 16 23 32 13 13 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0
DY=15K	-	TO COMBY USING MAICHING PANSFORMENS P 972 PI-125 DO YOU WORK WITH TARANSMISSION LINES WHICH ARE MATCHED TO 10406 URING ASSISTANTINES	T 1	TITED TETTINGS TO TELEVICE OF SETTINGS TO THE TERM OF SETTINGS TO THE SETTINGS		P 974 PI-24 DO 100 USE OR REFER TO THE TERM CUTOFF FREQUENCY OF TRA-24 DO 100 USE OR REFER TO THE TERM CUTOFF FREQUENCY OF	P 477 F1-25 DO YOU DENTS OR REFER TO THE TERM VELOCITY FACTOR (K)	F 978 PI-26 DO YOU COMPUTE THE ELECTRICAL LENGTH OF THANSHISSION IT FOR PROPERTY.	-	M Z E	INCREASES 1 461 P 461 PT-29 DO YOU WORK WITH NOWRESONANT (FLAT) TRANSHISSION	P 982 PI-30 DO YOU WORK WITH RESONANT TRANSMISSION LINES P 983 PI-31 DO YOU WORK WITH TRANSMISSION LINES WHICH ARE HATCHED TO LONG USING STAIR METCHED	P 464 PZ-C 50 YOU WORK WITH WAVEGUIDES OR CAVITY RESONATORS IN	P 985 P2-52 00 YOU INSPECT WAVEGUIDES OR CAVITY RESONATORS P 986 P2-63 00 YOU CLEAN WAVEGUIDES OR CAVITY RESONATORS P 987 P2-64 00 YOU CLEAN WAVEGUIDES OR CAVITY RESONATORS P 989 P2-65 00 YOU PRESSURIZE WAVEGUIDES OR CAVITY RESONATORS P 989 P2-65 00 YOU PRESSURIZE WAVEGUIDES OR CAVITY RESONATORS P 980 P2-67 00 YOU PROUBLESHOOT WAVEGUIDES OR CAVITY RESONATORS P 981 P2-67 00 YOU PROUBLESHOOT WAVEGUIDES OR CAVITY RESONATORS P 982 P2-67 00 YOU PROUBLESHOOT WAVEGUIDES OR CAVITY RESONATORS P 983 P2-67 00 YOU PROUBLESHOOT WAVEGUIDES SECTIONS P 983 P2-10 00 YOU REMOVE OR INSTALL WAVEGUIDE SECTIONS	995 P2=12 U0 YOU REMOVE OR INSTALL 996 P2=13 D0 YOU REMOVE OR INSTALL 9978 P2=14 U0 YOU REMOVE OR INSTALL 9978 P2=15 U0 YOU REMOVE OR INSTALL 1000 P2=17 U0 YOU MEMOVE OR INSTALL 1001 P2=17 U0 YOU MEMOVE OR INSTALL 1001 P2=19 U0 YOU MEMOVE OR INSTALL 1001 P2=19 U0 YOU WEMOVE OR INSTALL

WAVEGUIDES AND CAVITY RESONATORS

TASK GROUP SULMARY
PERCENT MEMBERS PERFORMING

10 SPC	7 7 0 1 6 9 25 26 0 40	6 7 0 1 6 9 25 25 0 40	0 4 4 9 38 38 0 40	6 7 0 4 4 9 38 38 0 40		5 6 3 0 4 14 13 13 0 20	* * 3 1 5 14 13 13 0 20	3 3 3 4 0 5 13 13 0 20	2 3 0 1 3 5 0 0 0 0	4 5 0 1 3 5 36 38 0 40	4 4 0 2 1 5 13 13 0 20	3 3 0 2 0 5 13 13 0 20	2 3 0 0 1 5 25 25 0 40	23 22 27 16 20 32 25 25 0 20	15 15 16 9 15 23 13 13 0 20	10 10 11 10 11 14 13 13 0 20	21 19 27 15 13 45 25 26 0 20	30 28 38 29 31 41 13 13 0 0	2 2 0 1 1 5 0 0 0 0	
PERCENT HERBERS PERFORMING SPC DV-15K	PICOS P2-20 DO YOU USE OR REFER TO "B" WALL OF WAVEGUIDES PICOS P2-21 DO YOU USE OR REFER TO CUTOFF FREQUENCY OF WAVEGUIDES PICOS P2-22 DU YOU USE OR REFER TO FREQUENCY-BETERNINING WALL OF	PIODS P2-23 DO YOU USE OR REFER TO POWER-DETERMINING WALL OF	PIGGT P2-24 GO YOU USE OR REFER TO ELECTRIC FIELD BOUNDARY	PIODS P2-25 DU YOU USE ON REFER TO MAGNETIC FIELD BOUNDARY	PIDDS PZ-Z6 DO YOU USE OR REFER TO DUPLEKER FIELD BOUNDARY	PIDIO P2-27 US YOU USE ON REFER TO THE GENERAL RULE THAT HOST HAVEGUIDES ARE HADE WITH A "B" WALL SIZE OF "7 WAVELENGTHS OF THE OPERATION	PIGII P2-28 DO YOU USE OR REFER TO THE GENERAL RULE THAT HOST "A" WALLS HANGE FROM "2 TO "S MAVELENGTHS IN SIZE, MITH "35 USED AS AN AVERAGE	PIOLS PARES ARE FOU CONCERNED WITH THE NATERIAL (SUCH AS BRASS)		PIGIS P2-31 DO YOU USE THE RIGHT HAND RULE TO DETERMINE THE DIRECTION OF PROPAGATION, DIRECTION OF SE FIELD, OR DIRECTION OF SWE FIELD IN WAVELIDES	OR REFER	PIDIS P2-33 DO YOU MEASURE THE TIME PHASE OF "E" OR "H" LINES IN	PIGLY PZ-34 DC YOU USE OR REFER TO THE SPACE QUADRATURE OF "E" OR	ONE PROBES USED ON MAYEGUIDES OR CAVITY	THER PROBES USED ON MAYEGUIDES OR CAVITY	USED ON MAVEGUIDES OF CAVITY RESONATORS	TURES (WINDOWS OR IRISES) USED ON MAVEGUIDES	REMEMBERS INC. MITTER THE CONTING USED REMEMBERS TO MEMBERS TO SEE	CAVITY RE	PID24 P2-41 DU YOU DETERMINE THE POSITIONING OF LOOPS IN MAYEGUIDES OR CAVITY RESONATORS MITHOUT REFERRING TO TECHNICAL DATA

MICROMAVE A PLIFIERS AND

No. N.

37

GPSHAA PAGE

OF MARS RESPONDING OFEST BY SELECTED GRPS

TASK GROUP SUMMANY PERCENT MEMBERS PERFORMING

PCT HBRS RESPONDING .TES' BY SELECTED GRPS TASK GHOUP SUMMARY PERCENT MEMBERS PERFORMING

2.8			
1			
-			
•			
22.5			
_			
•			
-			
	•		•
•		9	,
		×	۰
•		ė	ė
			۰
		4	۲
-			۲
		۰	r
-		-	•
		r	
5			,

DY-15K	248	280 1	950	250	340	345	SPC 087	345	0.0	240	200
PIGS P3-24 DU YOU TUNE PARAMETRIC AMPLIFIERS PIGGE P3-27 DE YOU PERFORM OPERATIONAL CHECKS OF PARAMETRIC		22 23	::	•:	200	23	22	22	00	00	2 62
PIGGI P3-28 DO YOU TROUBLESMOOT PARAMETRIC AMPLIFIERS P1GG P3-29 DO YOU REMOVE OR REPLACE COMPLETE PARAMETRIC	- ~	22	**	0.4	3.5	2,2	22	22	00	00	2.2
PIDES PS-SO TO YOU REMOVE OR REPLACE PARAMETRIC AMPLIFIER		•	1	~	•	•	2	2	0	•	~
P3-32 00 YOU INSPEC P3-32 00 YOU CLEAN P3-33 00 YOU ADJUST				5 h \$	5 6 8	222	222	224	222	000	1-8
PLOST P3-34 DC TOU TUNE MAGNETRONS PLOST P3-34 DC TOU PERFORM OPERATIONAL CHECKS OF MAGNETRONS PLOST P3-34 DC TOU TROUBLESHOOT MAGNETRONS PLOT P3-34 DC TOU TROUBLESHOOT MAGNETRONS	,		20-2	::::		4 - 0 -	2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2	2222	2222	0000	22.5
P3-38 Do YOU	•	z.	• -	. 4		ω ω	25	2 2	20	00	5 7
TEO-CAVITY KLYSTRON	•		- '	~	-	• .	2	2 :		20	~
PLOTA 13-41 DO TOU USE ON REFER TO THE OFERATING PRINCIPLES TAO-CAVITY KLYSTRONS CATCHER GRIDS PLOTS P3-42 DO YOU USE OR REFER TO THE OPERATING PRINCIPLES	. 5		•	~ 0	- •	•	2 2	2 2		2 2	
THO-CAVITY KLYSTRONS PREDBACK LOOPS PIOJS PSI-43 DO 700 USE OF REFER TO THE PRINCIPLES OF THO-CAVITY KLYSTRONS DRIFT SPACES	*0	_	•	-	-	۰	0	٥	•	0	~
PIGTY FIRST FOUNDE ON REFER TO THE OPERATING PRINCIPLES OF TROTO PRINCIPLES OF PIGTS FIRST GRIDS PIGTS FIRST FOUNDER FROM THE PERMINE PRINCIPLES OF	5 5		0 7		• •	en en	0 0	0 0	0 0	0 0	~ ~
7.0-CAVITY KLYSTRON P3-46 DC TOU USE OR T.0-CAVITY KLYSTRON	•		•	=	•	•	2	2	0	02	~
PICAGO P3-47 DC YOU USE OR REFER TO THE OPERATING PRINCIPLES TAC-CAVITY KLYSTRONS CATHODES PICAG P3-48 DC YOU USE OR REFER TO THE OPERATING PRINCIPLES	à à	28 27	35	2 5	^ <u>*</u>	· .	2 2	2 2	0 0	20 20	
PIDEZ PALTES PIDEZ PALTES PIDEZ PALTES PIDEZ PALTES PIDEZ X VYOUUSE PREFER TO THE OPERATING PRINCIPLES		• 15	=	57	•	•	2	2	0	0.2	•
PON GRID CAVI	5 6	10 11	~ <u>•</u>	2 5	• :	. 2	13	2 %	0 0	50	~ •
METER ALTSTRON MESONANT CAVITIES P3-52 00 YOU USE OR REFER TO THE OPERATING REFLEX ALTSTRON MAGNETIC COUPLING LOOPS P3-52 00 YOU WITH THE PROPERTY OF THE OPERATING	1 0 0		• :	2 :	~ .	• •	5 2	\$2	0 0	2 0	~ .
FIGS 73-53 OF TOU USE ON REFER TO THE OPERATING PRINCIPLES OF TOUR 73-54 OF TOU USE ON REFER TO THE OPERATING PRINCIPLES OF REFER TO THE OPERATING PRINCIPLES OF		• •	: :	- 2		2 2	5 5	2 2		2	, ,

PCT MBRS RESPONDING OVES BY SELECTED GRPS

GPSH4A PAGE 39

TASK GROUP SUNMARY PERCENT MEMBERS PERFORMING

SPC	16 16 16 15 10 27 13 13 0 20 3	5 0 0 0 0 5 8 6 0 6 8	8 9 0 9 7 5 13 13 0 20 5	5 6 0 5 6 5 13 13 0 20 3	7 8 0 5 8 5 13 13 0 20 5	5 4 0 1 8 5 13 13 0 20 5	6 7 0 5 7 5 13 13 0 20 5	£ 0 0 0 0 0 5 9 5 0 • 5	01 02 0 61 61 14 15 11 6 61 11	16 7 5 2 11 5 13 13 0 0 7	. 5 6 0 1 11 5 13 13 0 0 5	2 2 0 0 3 5 0 0 0 0 2	10R 6 7 3 2 10 9 0 C 0 0 2	le 8 6 5 5 10 9 13 13 0 0 3	it- 2 2 0 0 4 5 0 0 0 2	0	000	00	0 0 0 0 4 4 41		18 3 12 20 5 63 63 50 80 12	14 17 3 10 18 5 63 63 50 80 10 REGISTE	13 14 3 9 17 5 50 50 0 80 8	of 13 15 3 9 14 5 5 ₀ 50 0 80 a	OF 13 14 3 10 18 5 38 38 0 40 .
XST-YO	OR REFER	PIOSE PORTE DO YOU USE OF REFER TO THE OPERATING PRINCIPLES OF	PIUSO PASSENTO TOUTOUSE OR REFER TO THE OPERATING PRINCIPLES OF	PID41 F3-E8 DO FOU USE OF REFERS TO THE OPERATING PRINCIPLES OF	H	PIDS F3-60 DO TOU USE ON REFER TO THE OPERATING PRINCIPLES OF			PIDGE PAGE DO YOU USE OR REFER TO THE OPERATING PRINCIPLES OF	PIDST FLANKLINGERAVE TURKS ATTROBACRS PIDST FLANKLINGERAVE FERRITE	CIRCULATORS P1098 P3-65 DO YOU PENFORM TASKS ON PARAMETRIC AMPLIFIER SIGNAL	PIU94 POWED TOU PERFORM TASKS ON PARAMETRIC AMPLIFIER IDLEM	PILOU P3-67 DO YOU PERFORM TASKS ON PARAMETRIC AMPLIFIER VARACTOR	PILOL PILOS DE YOU PERFORM TASKS ON PARAMETRIC AMPLIFIER FERRITE	PILOZ PILOZ PANENTON TASKS ON PARAMETRIC AMPLIFIER REVERSE	PS-70 DO YOU PERFORM TASKS ON ANODES	PRATIC TOU TOU PERFORM TASKS ON	DO YOU PERFORM	PALLY DO YOU PERFORM TASKS ON	PILOS PLANS DO YOU PERFORM TASKS ON CATHODES	WINDL DO YOU USE OR REFER TO STORA	GIIII 11-UZ DO 70U USE OR REFER TO SHIFT REGISTERS GIIIZ GI-UJ DO 70U USE OR REFER TO LOGIC SYMBOLS OF SHIFT	REGISTERS ULTO USE OF PEFER TO LUGIC SYMBOLS OF STORAGE	E THE DATA FLOW THROUGH LUGIC DIAGRAMS	STILL THE STATES THE DATA FLOW THROUGH LOGIC DIAGRAMS OF STALK TYPE OF REGISTERS

TASK GROUP SUNNANT
PERCENT HEHBERS PERFORMING

		3		9								
0Y-TSK	0.51	250	053	0.00	5 C 0 5 5	020	057	058	000	190	200	
RILLED RILLOI DO YOU HORK WITH PHANTASTRON CIRCUITRY IN YOUR	13	2	~	7	12	on.	0.5	50	9	0.	~	PHANTASTRONS
RILLI METALLIN YOUR PRESENT JOB DO YOU WORK WITH SCHMITT TRIGGER	-	9	20	0	11	7	15	75	0	100	-	SCHMITT
RILAZ AZ-2010 YOU TRACE DATA FLOW THROUGH SCHMITT TRIEGER	:	15	٣	^	1.5	6	7.5	75	0	001	1	TRIGGERS
RIL43 R2-03 DO YOU USE ON REFER TO SCHMITT TRIGGER LOGIC SYMBOLS	=	13	٦	3	51	5	20	20	0	0	,	
RITHE RESENT JOB OF VOUR PRESENT JOB OF YOU FABRICATE HULTICONDUCTOR	25	2.6	11	23	3-	23	13	13	6	20	2	CABLE
53	*	?	4	35	5.6	50	20	90	20	9	6.	FABRICATION
00	=	-	~	53	40	53	25	23	20	0		TIMPUT /OUTPUT
SILAT SI-02 DO YOU PERFORM ANY TASKS ON NIXIE LIGHTS OR NIXIE	20	۰	0	~	1.8	0	0	Ö	0	0	*	DEVICES
LIGHT DECODER STREMS SILMS SI-03 DO YOU ANALYZE NIXIE LIGHT DECODER SYSTEMS USING	•	v	0	~	,	0	0	э	0	0	,	2
BOOLLAN ALGEBRA				-			-				Ì	PHOTO CENCITIVE
2	•	2	0	~	7	0	50	50	0	0	-	שמות פרונפון
SUITED IN YOUR PRESENT LOB DO YOU WORK WITH CHOPPER	26	27	32	= •	37	9 3	63	m 0	D C	9 0	5 2	DEVICES
DO YOU ME SUBE VOI TAKE LANGEN	2 =		•	٥ ،	, -		0 3	2 0	o c	9 0		
SA-04 OF YOU USE OR RESER TO SKITALION FRE				1			r a		0	0		(11
S3-US DO YOU USE ON REFER TO VOLTA				4			33	9 60	0	9		RA'ST
RELATION												
	•	1.0	•	۰	54	27	20	20	0	0	11	I BC
CIRCUIT	;		:	,		;		•	c		:	on:
STILLS STATE TO THE CONTRACT IN CONSORCION WITH CONTRACT	Ç	77	* 7		-	12	9	9	,		,,	
	5.4	2.4	54	^	36	53	63	63	0	0.8	22	Obl
CHUPPER CIRCUIT OPERATION												
SILSS SOUTH OF THE COMPANISON CINCUITS IN CONCUNCTION WITH	5	51	22	'n	-	23	63	63	0	0.8	17	
NOTICE OF STANCE	66	13	-	1	100	0	1	9.6	1	0.7	-	
TAFFARE SYSTEMS	•	;	1	•	?	,	n	2	,	2		(FRARED
TILES TILES OF YOU INSPECT INFRARED SYSTEMS	54	88	3	0	7.2	0	13	13	0	0	69	
TITEL TITEL OF YOU CLEAN INFRARED SYSTEMS	•	6 1	٦	a	4	0	-	2	0	0	-	
11-5- 21 100	5.4	8 2	9	0	70	0	17	-	0	0	7.1	Discount of the Control of the Contr
400	56	30	~	0	76	2	13	13	2	0	18	
11- 4 00 700	52	30	r	0	16	J	-13	5.	0	0	76	
51311.45												
TILES TI-07 OF YOU TROUBLESHOOT MAJOR ASSEMBLIES OF INFRANCO	52	5 8	٣	٥	15	0	13	-	0	0	7.5	
THE PERSON TO THE CUBIC STORY TO INFRARE SYSTEM	20	23	-	0	20	0	1	13	0	0		
Chipping of PARTS												
TILET TITES DE TOU REMOVE OR REPLACE HAJOR ASSEMBLIES OF	56	30	•	0	11	3	13	13	0	0	7.0	-
TILES TITES OF YOU REMOVE OR REPLACE INFRARED SYSTEM	6	2.1	•	0	3	0	-		0	a	4.7	
CO-FOMENT PARTS			,	,			•			,		

PET MENS MESTONDING TEST BY SELECTION OF SERVICE TASK GROUP SUMMARY PERFORMING

SPC	2	17			7
DY-TSK	TI-11 DO TOU USE OR REFER TI-12 DO TOU USE OR REFER TI-13 DO TOU USE OR REFER TI-14 DO TOU USE OR REFER TI-15 DO TOU USE O	USE OR REFER TO ASSOCIATE TO USE OR REFER TO ASSOCIATE TO REFER TO ASSOCIATE TO REFER TO ASSOCIATE TO REFER TO ASSOCIATE TO REFER TO ASSOCIATE BUT PERFORM TASKS ON CULAR LENTERFORM TASKS ON CORRECTION PERFORM TASKS ON SPERICAL PERFORM TASKS ON PLANE MIRR PERFORM TASKS ON PLANE MIRR MIRR AND MIRRS	T2-01 DOES YOUR PRESENT JOB INVOLVE ANY TASKS LASERS T2-02 DO YOU INSPECT LASER SYSTEMS T2-03 DO YOU OFERATE LASER SYSTEMS T2-04 DO YOU OPERATE LASER SYSTEMS T2-04 DO YOU OPERATE LASER SYSTEMS T2-04 DO YOU OPERATE LASER SYSTEMS T2-04 DO YOU PROUBLESHOOT WIRE CONNECTIONS OF LASER SYSTEMS	TITES TENDY DO TOU TROUBLESHOOT MAJOR ASSEMBLIES OF LASER SYSTEMS TITES TENDY OF TROUBLESHOOT TO COMPONENT PARTS OF LASER TITES TO TOU TROUBLESHOOT TO COMPONENT PARTS OF LASER TITES TO TOU REHOVE OR REPLACE COMPONENT PARTS OF LASER TITES TEND OF YOU REHOVE OR REPLACE COMPONENT PARTS OF LASER	11196 12-12 06 700 USE ON REFER TO ANGSTROMS (A) 11197 12-12 06 700 USE ON REFER TO ELECTRON ENERGY LEVELS 11198 12-13 06 700 USE ON REFER TO EXCITED STATE 11198 12-14 06 700 USE ON REFER TO PACKET OF RADIATION 11201 12-16 06 700 USE ON REFER TO PACKET OF RADIATION 11202 12-17 06 700 USE ON REFER TO STIMULATED EMISSION 11203 12-18 06 700 USE ON REFER TO STIMULATED EMISSION 11204 12-19 06 700 USE ON REFER TO COMERNEE ON INCOMERNCE 11205 12-20 US 700 USE ON REFER TO MONOCHROMATIC 11205 12-21 US 700 WORK WITH ACTIVE MATERIALS 11209 12-21 US 700 WORK WITH PUMPING SOURCES 11209 12-21 US 700 WORK WITH PUMPING SOURCES

PCT MBRS HESPONDING .YES" BY SELECTED GRPS

GPSHAA PAGE 43

TASK GROUP SUMMARY PERCENT MEMBERS PERFORMING

PCT HBRS RESPONDING .YES. BY SELECTED GRPS

TASK GROUP SUMMARY PERCENT MEMBERS PERFORMING

SPC 063	1.4 1.5 1.6 1.7 1.6 1.6 1.0 1.0 1.0 1.0 1.0 1.0 1.0 1.0 1.0 1.0
9 0	200000000000000000000000000000000000000
240	0000000000
380	ANATTAN O O
SPC 057	5 5 5 5 5 5 5 5 5 5 5 5 5 5 5 5 5 5 5 5
5 P C	
245	******* * O O
S & C	- " " " " " - " -
5°C 053	000000000000000000000000000000000000000
S & C	
250	7-7
DY-TSK	U1250 U1-10 DG YOU PERFORM TASKS ON INPUT DEVICES U1250 U1-17 DG YOU PERFORM TASKS ON STORAGE DEVICES U1252 U1-19 DG YOU PERFORM TASKS ON ARITHMETC SECTIONS U1252 U1-19 DG YOU PERFORM TASKS ON CONTROL SECTIONS U1253 U1-20 DG YOU PERFORM TASKS ON OUTPUT DEVICES U1254 U1-21 DG YOU PERFORM TASKS ON OUTPUT DEVICES U1255 U1-21 DG YOU USE DECISELS TO EXPRESS AMPLIFICATION AND ATTEMUATION U1256 U2-02 DG YOU USE LOGARITHMS TO COMPUTE OUTPUT POWER IN DECISELS U1257 U2-03 DG YOU USE LOGARITHMS TO COMPUTE ATTEMUATION IN DECISELS U1258 U2-04 DUMMY TASK TO IDENTIFY INCUMBENTS WHO PERFORMED HO TASKS

SPSHAA PAGE 44

CPSM4B PAGE 1

PLT MBHS RESPONDING .YES. BY SELECTED GRPS

TABULATION OF ELECTRONIC PRINCIPLES UTILIZATION DATA FOR SELECTED GROUPS IN THE 321XZ CAREER FIELD.

REPORTS ON THE FOLLOWING GROUPS WERE REQUESTED

IDENTITY .	5PC064	ALL	ALL AMN DAFSC 3215ZA ASSTGNED TO ADC	1FSC	32152	1 4 551	GNED	TO A	30	CONTAIN	N.G	53 #	EMBERS.
17 m	S	ALL	AMN D	4FSC	3215	ZA ASS	IGNED	10	ATC	CONTAINING	9 2	2	5 HEMBERS.
ITY .	S	ALL	AIRME	A DAF	SC 3.	21525					3 N E	12 8	FMBERS
ITY B	S	ALL	AMN DA	1FSC	32152	C ASSI	GNED	TO A	20		3	12 8	MBERS.
I DENTITY .	5	ALL	AIRME	N DAF	SC 3	2152N			COSP ALL AIRMEN DAFSC 32152N	CONTAINING	9 4	*	4 MEMBERS.
ITY .	SP	ALL	AMN DA	1FSC	32152	ASSI	GNED	TO T	AC		9 2		E MBERS.
117 .	S	ALL	MW D	1F5C	3215	SSY NZ	1 GNED	10	ATC		9 2	× -	EMBERS.
17 m	SP	ALL	AIRMEN	A DAF	SC 3	2152P					9 2	62 M	62 MEMBERS.
ITY .	S	ALL	AMN	1FSC	3215	2P STA	TIONE	NIC	CONUS		5 N 1	42 M	12 MEMBERS.
ITT .	SP	ALL	AMN DA	IFSC	3215	2P STA	TIONE	10 C	ERSEAS		9 N L	20 M	PO MEMBERS.
17Y	50	ALL	AMN DA	1F5C	321521	ASSI	GNED	10 7	A.C.		0	23 M	3 MEMBERS.

DIRECT CURRENT MATHEMATICS VOLTAGE RESISTANCE AND 700 000 000 5PC 075 7.4 30 40 -9.2 970 30 2000 0000 55 9 SPC 073 16 36 79 6.7 6.7 5PC 072 19 3.4 44 SPC 071 a 0000 100 0 0000 00 001 100 100 SPC 20000 0000 100 00 87 100 5 PC 20000 2000 75 100 00 75 GPSH48 PAGE 5 PC 83 2 2 2 2 2 0 2 0 0 2 0 100 67 00 92 3PC 066 83 67 00 100 5 PC 001 0.8 09 0.9 100 9000 200 4 5 19 100 47 4 50 1 * 0 5 DO TOU

4 DO TOU USE THE TERM DATE.

35 DO TOU USE THE TERM APPERE.

406 DO TOU USE THE TERM NEUTRON.

2-05 DO TOU USE THE TERM NEUTRON.

2-05 DO TOU USE THE TERM NEUTRON.

2-07 DO TOU USE THE TERM PROTON.

A3-02 DO TOU USE OR REFER TO TEMPERATURE COEFFICIENTS FOR STANDOLS ON ANY TASKS TOU PERFORMS.

27 A3-05 DO TOU USE OR REFER TO TEMPERATURE COEFFICIENTS FOR RESISTORS ON ANY TASKS TOU PERFORMS.

A3-05 DO TOU USE OR REFER TO TEMPERATURE COEFFICIENTS FOR RESISTOR STWBOLS SUCH AS FIXE RESISTOR STWBOLS OR TAPPED RESISTOR STWBOLS.

A3-05 DO TOU USE OR REFER TO TEMPERATURE COEFFICIENTS FOR RESISTOR STWBOLS.

A3-06 DO TOU USE OR REFER TO TEMPERATURE COEFFICIENTS FOR RESISTOR STWBOLS.

A3-07 DO TOU USE OR REFER TO TEMPERATURE COEFFICIENTS FOR RESISTOR STWBOLS.

A3-08 DO TOU USE OR REFER TO TEMPERATURE COEFFICIENTS FOR RESISTOR STWBOLS.

A3-09 DO TOU USE OR REFER TO TEMPERATURE COEFFICIENTS FOR RESISTOR STWBOLS.

A3-09 DO TOU USE OR REFER TO TEMPERATURE COEFFICIENTS FOR RESISTOR STWBOLS. AI-09 DO YOU SOLVE QUADRATIC EQUATIONS.
AI-10 DO YOU USE THE MATURAL SYSEM OF LOGARITHMS.
AI-11 DO YOU PERFORM CALCULATIONS ON VECTOR QUANTITIES.
SINE, COSINE, OR TANGENT.
I-13 DO YOU SOLVE OR USE SIMULTANT.
I-14 DO YOU SOLVE OR USE SIMULTANT.
I-16 DO YOU SOLVE OR USE SIMULTANT. 1-01 IN YOUR PRESENT JOB, DO YOU USE INSTRUMENTS, SUCH AS METERS OR OSCILLOSCOPES, IN WHICH IT IS NECESSARY TO AMPLIFY OR ATTENUATE YOUTAGE, RESISTANCE, ETC., BY POWERS 1-02 DO YOU USE PUBLICATIONS, SUCH AS A TECHNICAL ORDERS OR MAINTENANCE MANUALS, IN WHICH IT IS NECESSARY FOR YOU TO MULTIPLY OR DIVIDE BY A POWER OF 10 BEFORE YOU CAN APPLY THE INFORMATION FROM THE PUBLICATION IN A USEFUL WI 5 UCH REARRANGE AND SOLVE FORMULAS OR EQUATIONS...
CALCULATE THE SQUARE ROOT OF A QUANTITY...
SOLVE FOR UNKNOWN QUANTITIES...
CONVENT NUMBERS TO LOGARITHMS...
USE LOGARITHM TABLES IN ANY TYPE OF DETERNINE AREAS OF PLANE FIGURES.
SOLVE OR USE SIMULTAMENUS EQUATIONS.
SOLVE OR USE PROPORTIONS.
USE THE TERM VOLTAGE OR VOLT (V).
USE THE TERM ELECTROMOTIVE FONCE (EMF). BY SELECTED GRPS DY-15K TASK GROUP SUMMARY PERCENT MEMBERS PERFORMING CALCULATIONS. PCT MBRS RESPONDING 100 A1-03 A1-04 A1-09 A1-02 A 1-13 A1-12 * 1 - 1 V A 2-01 0

PLT MBRS RESPONDING .YES' BY SELECTED GRPS

GPSM4B PAGE

d

•

SPC 073 SPC 072 SPC 071 SPC 070 SPC 067 5PC 066 SPC 064 TASK GROUP SUMMANY PERCENT NEMBERS PERFORMING

5PC 075 . 7.8 : 6 1 --3.6 * • -7 4 5.2 a 6.7 -. . 0,9 3.4 ACHIEVE A SPECIFIC VOLTAGE.

A3-14 DO YOU USE OR REFER TO THE SCHEMATIC SYMBOLS WHICH
REPRESENT BATTERIES, FUSES, CONDUCTORS, LAMPS, OR SWITCHES
A3-15 DO YOU CALCULATE TOTAL RESISTANCE FOR SERIES OI RESISTIVE CIRCUITS. 43-19 DO YOU CALCULATE TOTAL RESISTANCE FOR SERIES PARALLEL RESISTIVE CIRCUITS.
A3-25 DO YOU CALCULATE TOTAL CURRENT FOR PARALLEL RESISTIVE RESISTIVE CIRCUITS.

A3-21 DO YOU CALCULATE INDIVIDUAL VOLTAGE DROPS FOR SERIES
PARALLEL RESISTIVE CIRCUITS.

A3-22 DO YOU CALCULATE INDIVIDUAL BRANCH CURRENTS FOR A3-17 DO YOU CALCULATE INDIVIDUAL VOLTAGE DROPS FOR SERIES A3-16 DO YOU CALCULATE TOTAL CURRENT FOR SERIES RESISTIVE A3-20 DO YOU CALCULATE TOTAL CURRENT FOR SERIES PARALLEL 35 A3-12 DO TOU USE RESISTOR COLOR CODES WHICH INDICATE FAILURE RATE.
36 A3-13 DO TOU MAKE DECISIONS IN WHICH TOU MUST DETERMINE TWO OR WORE BATTERIES MUST BE CONNECTED TOGETHER TO YOU REPAIR AMMETERS.
YOU MEASURE CURRENT.
YOU USE MULTIREES.
YOU DIRECTLY USE A QUANTITY OF CHARGE CALLED PARALLEL RESISTIVE CIRCUITS.

A3-27 DO 70U CALCULATE INDIVIDUAL VOLTAGE DROPS FOR A3-27 DO 70U CALCULATE INDIVIDUAL BRANCH CURRENTS FOR PARALLEL RESISTIVE CIRCUITS.

A3-28 DO 70U CALCULATE FOWER DISSIPATION FOR PARALLEL PARALLEL RESISTIVE CIRCUITS. A3-24 DO YOU CALCULATE TOTAL RESISTANCE FOR PARALLEL DO YOU USE RESISTOR COLOR CODES WHICH INDICATE RESISTIVE CIRCUITS.
A3-18 DO YOU CALCULATE POWER DISSIPATION FOR SERIES SERIES PARALLEL RESISTIVE CIRCUITS.
A3-23 DO YOU CALCULATE POWER DISSIPATION FOR SERIES TOU MEASURE RESISTANCE, YOU REPAIR OHMMETERS. TOU MEASURE VOLTAGE. RESISTIVE CIRCUITS. RESISTIVE CIRCUITS. RESISTIVE CIRCUITS. CIRCUITS. CIRCUITS. 34 A3-11 B1-01 81-04 91-02 81-03 81-05 .

:

BI-09 DO YOU READ SCHEMATICS.

COULOMB.

81-08

81-04 81-07 a

MULTIMETER USES

PCT MBRS RESPONDING .YES. BY SELECTED GRPS

1 1

GPSN48 PAGE

SPSH48 PAGE S

TASK GROUP SUMMARY

	W	PERCENT MENBERS PERFORMING	20	RFORMING											ð
1				DY-15K	200	300	5 P.C	SPC 067	260	SPC 070	SPC 071	SPC 072	SPC 073	2.	975 075
J	9.5	u	400	1-01 DO YOU WORK WITH CAPACITORS OR CIRCUITS CONTAINING	57	80	4.5	45	100	100	001	9	17	0	**
	0	C1-02	You		42	9	92	65	100	100	100	5.8	55	9.8	19
, .		(1-03	YOU	YOU CLEAN CAPACITORS.	91	50	100	100	100	001	100	34	7.0	20	13
, ,	9.5	. d - 13	400	YOU ADJUST CAPACITORS.		09	92	9.2	20	6.7	0	9 9	0.	50	
, ,		C1-05	100	TEST CAPACITORS.	21	0	9.2	42	100	100	100	47	7	55	35
		10-10	100	DISCHARGE CAPACITORS.	43	09	42	4.5	100	100	100	8 9	11	10	70
		C1-07	100	REMOVE OR REPLACE CAPACITORS.	3.6	30	100	100	100	100	100	4.7	?	55	
			TOU	OR REFER TO DISTR	=	0	35	25	a	0	0	5 1	11	10	17 CAPACITORS AND
10	100	60-10	NO.	OR REFER TO	•	3	•	•	0	0	0	0	,	15	. CAPACITIVE
			CTRI				-		-			-			REACTANCE
J	101	1 C1-10 00 100 USE	200	USE OR REFER TO FARADS, MICROFARADS, OR	52	80	45	45	001	100	001	20	•	55	35
-	102	U	100	USE OR REFER TO CAPACITANCE.	•	00	100	100	100	100	100	45	43	80	30
			100	OR REFER TO DIELE	•	00	45	42	25	33	0	2	2	15	•
0	104	4 C1-13 DO 100	100	OR REFER TO WORK!	•	9	100	100	100	100	100	43	0.	\$2	30
			ORS			-						-			The second secon
u		41-13	100	OR REFER TO CAPACITIVE REAC	=	09	41	67	20	67	0	53	•	30	1.7
9		51-12	100	LITOR C	•	•	45	42	75	67	001	•	11	5	•
U			400	N DC	9	0	100	001	100	100	100	1	1.	10	7.4
u		8 C1-17 DO YOU	YOU	CIRCUITS	92	0	42	4.5	100	100	100	73	*	10	14
J	100		100	-	2.3	0	001	100	100	00	100	-	0	9	
	110	U	YOU	MORK WITH CAPACITORS IN DON'T REMEMBER WHICH	=	0	00		c	0	0	•	61	20	2.6
			s						,		,				
,	111 3		YOU	CI-20 DO YOU CALCULATE CAPACITANCE FOR PARTICULAR	*	0.	13	-	0	0	0	5	\$	s	•
			085												-
U	1112		100	ENERAL RULE THAT	•	•	-	1.1	0	0	0	~	•	0	
		CAPACIT	AMCE	ACTION IS DIRECTLY PROTON TONAL	-	-	-	-	-	*	-	-		-	
,	-		100		•		26	3.6	•	c	c	ď	ď	•	0
,			ANCE	CAPACITANCE OF A CAPACITOR IS INVERSELY PROPORTIONAL TO		2	:	2	2	,	3				
		THE DIE	LECT												
U	*	4 C1-23 DG Y	400	CALCULATE THE TOTAL CAPACITANCE OF CAPACITORS	•	0	28	8.5	25	33	0	=	0	-	•
,	511	5 61-24 00	YOU	CI-24 DO YOU CALCULATE THE TOTAL CAPACITANCE OF CAPACITORS	7	9	6.7	4.7	26	13	c	=	10	51	•
,		IN PARALLEL	1371						,	,	,	:		:	9 9
U		4 CI-25 00	100	116 CI-25 DO TOU CALCULATE THE TOTAL CAPACITANCE OF CAPACITORS	7	0	20	20	3.5	33	0	=	10	5	•
			E 5.P		•										
v	117	0065	1 46	DO TOU USE OR REFER TO THE GEMENAL RULE THAT CURRENT NOT FLOW THROUGH CAPACITORS, IT ONLY APPEARS TO DO SO	•	0	7.5	75	75	6	100	9	•	5	•
u	118	C1-27	100	ENERAL R	Ξ	0.	50	20	20	33	100	5	•	5	13
			100	THE	•		4	9	4	1.1		d	0	J	•
J			IVE	RTIONA		?	2	2	O.		0	0	2	•	
,							;	:					:		
u	120		100	CI-24 DO TOU CALCOLATE CAPACITIVE REACTANCE		90	73	33	57	37	a	0	71	•	

TRANSFORMERS 10 252 452 35.5 2 . 22 36 26 22 2002000 0 00 50 15 52 0.9 6.9 5PC 456 452 482 482 0 0 2 SPC 072 0 4 4.7 37 23 3 000 000 d 00 0 0 0 00 0 O 0 100 SPC 071 000000 00 100 100 SPC 070 000,00 001 100 33 6.7 33 33 00 001 75 888888 00 25 25 25 GPSH48 PAGE -0 33 92 00 4.2 50 5.8 100 25 0 25 100 33 25 00 92 50 58 SPC 065 90 20 20 0 20 20 0 0 0 5 3.5 7 C 138 C2-11 DO YOU CALCULATE TURNS RATIOS FOR TRANSFORMERS USING CURRENT OR VOLTAGE RATIOS C 139 C2-12 DO YOU REFER TO REFLECTED INPEDANCE WHEN WORKING MITH 10 WITH ROTOR-STATOR (VARIABLE) CAPACITORS
WITH COMPRESSION (RIMMER) CAPACITORS
WITH ELECTROLYTIC (FIXED) CAPACITORS
WITH PAPER (FIXED) CAPACITORS
WITH MILA (FIXED) CAPACITORS
WITH CERAMIC (FIXED) CAPACITORS
WITH CON*T REMEMBER WHICH TYPE OF TROUBLESHOOT TRANSFORMERS
REHOVE OR REPLACE COMPLETE TRANSFORMERS
REHOVE OR REPLACE TRANSFORMER PARTS, SUCH AS DOWN TURNS RATIO CZ-2" DO YOU REFER TO BASIC TRANSFORMER SCHEMATIC SYMBOLS THE PRIMARY WINDING

12-08 DO YOU MAKE A DISTINCTION BETWEEN MUTUAL INDUCTION
AND MUTUAL INDUCTANCE (M)

12-09 DO YOU USE THE SYMBOL FOR MUTUAL INDUCTANCE, M

22-10 DO YOU REFER TO OR USE THE COEFFICIENT OF COUPLING
WHEN MORKING WITH TRANSFORMERS DETERMINE WHETHER A TRANSFORMER WAS A STEP-UP OR 2-23 DOWN TURNS RATIO 308 148 C2-21 DO YOU CHECK TRANSFORMERS FOR SHORTED WINDINGS BY CZ-Z3 DO YOU ME SURE OUTPUT YOLTAGE OF TRANSFORMERS TO DETERMINE WHETHER A TRANSFORMER MAS A STEP-UP OR STEP-C 147 C2-20 DO YOU CHECK TRANSFORMERS FOR SHORTED MINDINGS MEASURING RESISTANCE 146 C2-19 DO YOU CHECK TRANSFORMENS FOR OPEN WINDINGS SY C2-15 DO YOU WORK WITH POWER TRAMSFORMERS
C2-16 DO YOU WORK WITH AUDIO TRAMSFORMERS
C2-17 DO YOU WORK WITH ADDIO FREQUENCY TRANSFORMERS
C2-18 DO YOU WORK WITH DON'T RENEMBER WHAT TYPE OF MORK WITH TRANSFORMERS IN YOUR PRESENT INSPECT TRANSFORMERS CALCULATE IMPEDANCE INTERACTIONS TRANSFORMERS C2-14 DO YOU WORK WITH AUTOTRANSFORMERS PCT MBRS RESPONDING .YES' BY SELECTED GRPS ADJUST TRANSFORMERS 149 CZ-22 DO TOU MEASURE RESISTANCE CLEAN TRANSFORMER PERCENT MEMBERS PERFORMING MEASURING RESISTANCE HORK TRANSFORMERS TRANSFORMERS C 140 C2-13 DO YOU C2-10 \$ C . . . 60-23 FOR C 135 150 137 1 4 1 15

2

MAGNETISM SPC 075 . ; : -9 5 2 \$ 2 : = -2.0 SPC 072 3 - 5 = - 2 SPC 071 a a 6.7 -o GPSH48 PAGE 3. C2-25 DO TOU REFER TO MULTIPLE SECONDARY-WINDINGS SCHEMATIC SYMBOLS FOR TRANSFORMERS C2-26 DO YOU REFER TO MULTIPLE TAP SCHEMATIC SYMBOLS FOR TRANSFORMERS YOU WORK WITH

C2-33 DO YOU REFER TO OR USE THE GEMERAL RULE THAT THE
TURNS RATIO OF A TRANSFORMER IS EQUAL TO THE VOLTAGE RATIO
C2-34 DO YOU USE OR REFER TO STEP-UP OR STEP-DOWN RATIOS C2-30 DO YOU REFER TO COMBINATIONS OF THE ABOVE SCHEMATIC SYMBOLS FOR TRANSFORMERS C2-31 DO YOU DETERMINE PHASE RELATIONSHIPS BETWEEN SECONDARY AND PRIMARY VOLTAGES OF TRANSFORMERS USING DO YOU INSECT THREE PHASE TRANSFORMERS
DO YOU CLEAM OR LUBRICATE THREE PHASE TRANSFORMERS
DO YOU ADJUST THREE PHASE TRANSFORMERS
DO YOU ADJUST THREE PHASE TRANSFORMERS
DO YOU TROUBLESHOOT THREE PHASE TRANSFORMERS
DO YOU REMOVE OR REPLACE COMPLETE THREE PHASE USE OR REFER TO WEBER'S THEORY OF MAGNETISM USING TURNS RATIOS C2-37 DOES YOUR JOB INVOLVE ANY TASKS DEALING WITH THREE OR REFER TO RESIDUAL MAGMETISM OR REFER TO MAGMETIC LINES OF FORCE OR SCHEMATIC SYMBOLS C 159 C2-32 DO YOU DETERMINE OR REFER TO THE TYPE OF CORE IN FOR TRANSFORMERS C2-35 DO YOU CALCULATE VOLTAGE RATIOS FOR TRANSFORMERS USING TURNS RATIOS C2-27 DO YOU REFER TO CENTER TAP SCHEMATIC STHBOLS FOR C2-36 DO YOU CALCULATE CURRENT RATIOS FOR TRANSFORMERS C2-43 DO YOU REMOVE OR REPLACE THREE PHASE TRANSFORMER OR REFER TO PERMEABILITY OF MAGNETIC C2-29 DO YOU REFER TO IRON CORE SCHEMATIC SYMBOLS FOR TRANSFORMERS PARTS SUCH AS MINDINGS
3-01 DO YOU USE OR REFER TO PERHAMENT MAGNETS
3-02 DO YOU USE OR REFER TO TEMPORARY MAGNETS
3-03 DO YOU USE OR REFER TO RETENTIVITY OF MAGNETIC C2-28 DO YOU REFER TO AIR CORE SCHEMATIC SYMBOLS FOR 174 C3-04 DO TOU USE ON REFER TO RELUCTANCE OF MAGNETIC PLT MBRS RESPONDING OYESO BY SELECTED GRPS DY-15K TASK GROUP SUNNARY PERCENT MEMBERS PERFORMING TRANSFORMERS C3-02 00 400 026 TRANSFORMERS TRANSFORMERS TRANSFORMERS TRANSFORMERS C3-06 00 70U C3-07 DO YOU 00 400 MATERIALS MATERIALS PHASE 63-09 (3-03 (3-02 C 171 C 172 C 173 1 6 4 C 153 -9 9 251 3 951 3 c 170 6 176 .

No. No.

PCT MBRS RESPONDING 17ES' BY SELECTED GRPS

GPSH4B PAGE 8

TASK GROUP SUMMARY

10. C-10. 00 TOU USE OF REFER TO MANANTIC INDUCTION 110. C-10. 00 TOU USE OF REFER TO MANANTIC INDUCTION 111. C-10. 00 TOU USE OF REFER TO MANANTIC INDUCTION 112. C-10. 00 TOU USE OF REFER TO MANANTIC INDUCTION 113. C-10. 00 TOU USE OF REFER TO MANANTIC INDUCTION 114. C-10. 00 TOU USE OF REFER TO MANANTIC INDUCTION 115. C-10. 00 TOU USE OF REFER TO MANANTIC INDUCTION 115. C-10. 00 TOU USE OF REFER TO MANANTIC INDUCTION 116. C-10. 00 TOU USE OF REFER TO MANANTIC INDUCTION 117. C-10. 00 TOU USE OF REFER TO MANANTIC INDUCTION 118. C-10. 00 TOU USE OF REFER TO MANANTIC INDUCTION 118. C-10. 00 TOU USE OF REFER TO MANANTIC INDUCTION 119. C-10. 00 TOU USE OF REFER TO MANANTIC INDUCT			1	-	1	1	1						
CE-10 TO TOU USE ONE RETER TO ALGERITIS MOUNT TO MEMBER 19													
CHILD DO TOU USE ON REFER TO LOADER TINGLE THAT TOR ASAMETIC DO TOU USE ON REFER TO LOADER TINGLE THAT TOR ASAMETIC DO TOU USE ON REFER TO LOADER TINGLE THAT TOR ASAMETIC DO TOU USE ON REFER TO LOADER TINGLE THAT TOR ASAMETIC DO TOU USE ON REFER TO LOADER TINGLE THAT TOR ASAMETIC DO TOU USE ON REFER TO LOADER TINGLE THAT TOR ASAMETIC DO TOU USE ON REFER TO LOADER TINGLE THAT TOR ASAMETIC DO TOU USE ON REFER TO LOADER TINGLE THAT TOR ASAMETIC DO TOU USE ON REFER TO LOADER TINGLE THAT THE TOT TO TOU USE ON REFER TO TOU USE ON REFER TO TOU USE ON REFER TO THAT HAT THAT THAT THAT THAT THAT TH		XXI-X0	1	1		1				1	1	1	
COLITIO DO TOU USE ON REPERT TO PAGENTAL FILED FOR THE TAY FOR THE TAY FOR THE TOUR TOU USE ON REPERT TO PAGENTAL FILED FOR THE TAY FOR TH	1.3	C3-09 DO YOU USE OR REFER TO DOWAIN THEORY OF	*	0	17			0	a		110	0	
CHILD DO TOU DE ON RECERT 10 FLUX RALE FIAT FOR 19 0 25 35 5 0 0 0 110 10 15 0 1	-	C3-10 DO YOU USE OR REFER TO MAGNETIC INDUCTIO		0.6	33			0	2	4 2	4 2	5 2	
A	8	C3-11 DO YOU USE OR REFER TO FLUX DENSITY		40				0		-			•
MAGNETIC POLIS, LIFE POLICE REPLEA, MANUALE POLITICA PHAGNATION OF MAGNETIC FOLIS, LIFE POLICE AGUT STREET, MIRES DIRECTION OF MACHINET CERTETT HAND THUS NULLE FOR PHAGNAT DIRECTION OF MACHINET CERTETT HAND THUS NULLE FOR PHAGNAT DIRECTION OF MACHINET CERTETT HAND THUS NULLE FOR PHAGNAT DIRECTION OF MACHINET CERTETT OF MACHINET MILE MACHINET HAND THUS NULLE CERTETT OF MACHINET MILE MACHINET HAND THUS NULLE CERTETT OF MACHINET HAND THUS NULLE CERTETT OF MACHINET HAND THUS NULLE CERTETT OF MACHINET HAND MACHINETH HAND MACHINET HAND MACHINET HAND MACHINET HAND MACHINET HAND MACHINET HAND MACHINETH HAND MACHIN	-	C3-12 DO YOU USE OR REFER TO THE GENERAL RULE THAT		80				0		• 0			0
10-10 TO TO USE THE LEFT HAND THURS NULE TO FIND THE MORTH TO TO TO USE THE LEFT HAND THURS NULE TO FIND THE MORTH TO THE MORTH THE MORT		LIKE POLES REPEL AND UNLIKE POLES											
DIRECTION OF MARKETING FILED THAND THAND RULE HE MORTH FOOTOW USE THE LEFT HAND THAND RULE HE MORTH FOOTOW USE THE LEFT HAND THAND RULE HE MORTH FOOTOW USE THE LEFT HAND THAND RULE HE MORTH FOOTOW USE THE LEFT HAND THAND RULE HE MORTH FOOTOW USE OR REFER TO VECTORS WHEN WORKING WITH RCL. 13 40 50 50 00 0 0 19 17 25 17 17 10 0 0 00 00 00 00 00 00 00 00 00 00 00		C3-13 DO YOU USE THE LEFT HAND THUMB RULE TO FIND		0				0					
10-10 TO TO USE THE LEFT HAND THUNDS RULE TO FIND THE MORTH 19 40 25 25 0 0 0 10 10 21 5 9 10 10 10 10 10 10 10 10 10 10 10 10 10		T STRAIGHT WIRES				-							
PRESENTE 100 WORK WITH RCL LIN, RCL CIRCUITS IN TOUR PRESENTE 100 WORK WITH RCL LIN, RCL CIRCUITS IN TOUR PRESENTE 100 WORK WITH RCL LIN, RCL CIRCUITS WHEN WORKING WITH RCL CIRCUITS OF 100 TOU UNE OR REFER TO VECTORS WHEN WORKING WITH RCL CIRCUITS CIRCUITS OF 100 TOU UNE OR REFER TO TANGENT WHEN WORKING WITH RCL CIRCUITS CIRCUITS OF 100 TOU UNE OR REFER TO TANGENT WHEN WORKING WITH RCL CIRCUITS CIRCUITS OF 100 UNE OR REFER TO TANGENT WHEN WORKING WITH RCL CIRCUITS CIRCUITS OF 100 UNE OR REFER TO TANGENT WHEN WORKING WITH RCL CIRCUITS CIRCUITS OF 100 UNE OR REFER TO TANGENT WHEN WORKING WITH RCL CIRCUITS OF 100 UNE OR REFER TO TANGENT WHEN WORKING WITH RCL CIRCUITS OF 100 UNE OR REFER TO TANGENT WHEN WORKING WITH RCL CIRCUITS OF 100 UNE OR REFER TO TANGENT WHEN WORKING WITH RCL CIRCUITS OF 100 UNE OR REFER TO TANGENT WHEN WORKING WITH RCL CIRCUITS OF 100 UNE OR REFER TO TANGENT WHEN WORKING WITH WORKING WITH RCL CIRCUITS OF 100 UNE OR REFER TO TANGENT WHEN WORKING WITH WORKING WITH RCL CIRCUITS OF 100 UNE OR REFER TO TANGENT WHEN WORKING WITH WORKING WITH RCL CIRCUITS OF 100 UNE OR REFER TO TANGENT WHEN WORKING WITH WORKING WITH RCL CIRCUITS OF 100 UNE OR REFER TO TANGENT WHEN WORKING WITH WORKING WITH RCL CIRCUITS OF 100 UNE OR REFER TO TANGENT WHEN WORKING WITH WORKING WITH RCL CIRCUITS OF 100 UNE OR REFER TO TANGENT WHEN WORKING WITH WORKING WITH RCL CIRCUITS OF 100 UNE OR REFER TO TANGENT WHEN WORKING WITH WORKING WITH RCL CIRCUITS OF 100 UNE OR REFER TO TANGENT WHEN WORKING WITH WORKING WITH RCL CIRCUITS OF 100 UNE OR REFER TO TANGENT WHEN WORKING WITH WORKING WITH RCL CIRCUITS OF 100 UNE OR REFER TO TANGENT WHEN WORKING WITH WORKING WITH RCL CIRCUITS OF 100 UNE OR REFER TO TANGENT WHEN WORKING WITH WORKING WITH WORKING WITH RCL CIRCUITS OF 100 UNE OR REFER TO TANGENT WHEN WORKING WITH WORKING WITH WORKING WITH RCL CIRCUITS OF 100 UNE OR REFER TO TANGENT WHEN WORKING WITH WORKING WITH WORKING WITH RCL CIRCUITS OF 100 UNE OR TANGENT WORKING WITH WORKIN	-	C3-14 DG YOU USE THE LEFT HAND THUMB RULE TO FIND THE POLE OF A CURPENT CARRYING COT.		0				٥					
PRESENTING 10-02 00 105 00 10		NI STILL DO YOU WORK WITH RC. IN. DO. O. D. D.		0		5	1	1	-				
D1-05 D0 TOU USE ON REFER TO VECTORS WHEN WORKING WITH RCL 101-05 D0 TOU USE ON REFER TO FYTHAGOREAN THEOREM WHEN 101-05 D0 TOU USE ON REFER TO FYTHAGOREAN THEOREM WHEN 101-05 D0 TOU USE ON REFER TO FYTHAGOREAN THEOREM WITH RCL 1101-05 D0 TOU USE ON REFER TO COSINE WHEN WORKING WITH RCL 1101-05 D0 TOU USE ON REFER TO COSINE WHEN WORKING WITH RCL 1101-05 D0 TOU USE ON REFER TO COSINE WHEN WORKING WITH RCL 1101-05 D0 TOU USE ON REFER TO TANGENT WHEN WORKING WITH RCL 1101-05 D0 TOU USE ON REFER TO TANGENT WHEN WORKING WITH RCL 1101-05 D0 TOU USE ON REFER TO TANGENT WHEN WORKING WITH RCL 1101-05 D0 TOU USE ON REFER TO TANGENT WHEN WORKING WITH RCL 1101-05 D0 TOU USE ON REFER TO TANGENT WHEN WORKING WITH RCL 1101-05 D0 TOU USE ON REFER TO TANGENT WHEN WORKING WITH RCL 1101-05 D0 TOU USE ON REFER TO MAKING WITH RCL 1101-05 D0 TOU USE ON REFER TO MAKING WITH RCL 1101-05 D0 TOU USE ON REFER TO MAKING WITH WHEN WORKING WITH RCL 1101-05 D0 TOU USE ON REFER TO RESONANT GROUND WHEN WORKING WITH RCL 1101-05 D0 TOU USE ON REFER TO MAKING WITH RCL 1101-05 D0 TOU USE ON REFER TO MAKING WITH RCL 1101-05 D0 TOU USE ON REFER TO MAKING WITH RCL 1101-05 D0 TOU USE ON REFER TO MAKING WITH RCL 1101-05 D0 TOU USE ON REFER TO MAKING WITH RCL 1101-05 D0 TOU USE ON REFER TO MAKING WITH RCL 1101-05 D0 TOU USE ON REFER TO MAKING WITH RCL 1101-05 D0 TOU USE ON REFER TO MAKING WITH RCL 1101-05 D0 TOU USE ON REFER TO MAKING WITH RCL 1101-05 D0 TOU USE ON REFER TO MAKING WITH RCL 1101-05 D0 TOU USE ON REFER TO MAKING WITH RCL 1101-05 D0 TOU USE ON REFER TO MAKING WITH RCL 1101-05 D0 TOU USE ON REFER TO MAKING WITH RCL 1101-05 D0 TOU USE ON RCL 1101-05 D0 TOU USE ON REFER TO MAKING WITH RCL 1101-05 D0 TOU USE ON REFER TO MAKING WITH RCL 1101-05 D0 TOU USE ON REFER TO MAKING WITH RCL 1101-05 D0 TOU USE ON RCF WAS TO WORKING WITH RCL 1101-05 D0 TOU USE ON TOU USE ON RCF WAS TO WORKING WITH RCL 1101-05 D0 TOU USE ON TOU USE ON TOU WORKING WITH RCL 1101-05 D0 TOU USE ON TOU USE ON TOU USE ON TO TO TO TO TO TO TO		PRESENT COB		:		•		•					
01-00 100 USE OR REFER TO STHE WHEN WORKING WITH RCL	=	DI-02 DO YOU USE OR REFER TO VECTORS WHEN WORKING WITH R		0				0	0				
MORKING WITH REL CIRCUITS LINCUIS OF OR FEFER TO SHE WHEN WORKING WITH REL LINCUIS OF OR REFER TO COSINE WHEN WORKING WITH REL LINCUIS OF OR REFER TO COSINE WHEN WORKING WITH REL LINCUIS OF OR REFER TO COSINE WHEN WORKING WITH REL LINCUIS OF OR OU USE OR REFER TO TANGENT WHEN WORKING WITH REL LINCUIS OF OU USE OR REFER TO TANGENT WHEN WORKING WITH REL LINCUIS OF OU USE OR REFER TO TANGENT WHEN WORKING WITH REL LINCUIS OF OU USE OR REFER TO WALTHOW POWER (PT) WHEN WORKING WITH REL LINCUIS OF OU USE OR REFER TO WALTHOW POWER (PT) WHEN WORKING WITH REL LINCUIS OF OU USE OR REFER TO WALTHOW POWER (PT) WHEN WORKING WITH REL LINCUIS OF OU USE OR REFER TO WALTHOW POWER (PT) WHEN WORKING WITH WORKING WITH REL LINCUIS OF OU USE OR REFER TO WALTHOW POWER (PT) WHEN WORKING WITH WORKING WITH REL LINCUIS OF OU USE OR REFER TO RESONANT CIRCUITS WHEN WORKING WITH WORKING WITH REL LINCUIS OF OU USE OR REFER TO RESONANT FREQUENCY WHEN WORKING WITH REL LINCUIS OF OU USE OR REFER TO RESONANT FREQUENCY WHEN WORKING WITH REL LINCUIS OF OU USE OR REFER TO RESONANT FREQUENCY WHEN WORKING WITH REL LINCUIS OF OU USE OR REFER TO RESONANT FREQUENCY WHEN WORKING WITH REL LINCUIS OF OUU USE OR REFER TO RESONANT FREQUENCY WHEN WORKING WITH REL LINCUIS OF OUU USE OR REFER TO RESONANT FREQUENCY WHEN WORKING WITH REL LINCUIS OF OUU USE OR REFER TO RESONANT FREQUENCY WHEN WORKING WITH REL LINCUIS OF OUU USE OR REFER TO RESONANT FREQUENCY WHEN WORKING WITH REL LINCUIS OF OUU USE OR REFER TO RESONANT FREQUENCY WHEN WORKING WITH REL LINCUIS OF OUU USE OR REFER TO LINCUIS WHEN WORKING WITH REL LINCUIS OF OUU USE OR REFER TO LINCUIS WHEN WORKING WITH REL LINCUIS OF OUU USE OR REFER TO LINCUIS WHEN WORKING WITH REL LINCUIS OF OUU USE OR REFER TO LINCUIS WHEN WORKING WITH WE LINCUIS WITH REL LINCUIS OF OUU USE OR REFER TO LINCUIS WHEN WE WITH REL LINCUIS OF OUU USE OF REFER TO LINCUIS WHEN WORKING WITH REL LINCUIS OF OUU USE OF REFER TO LINCUIS WITH WHEN WORKING WITH REL LINCUIS OF OUU USE OF REFER TO LINCUIS WITH WE WITH		DI-DS DO YOU USE OR REFER TO PYTHAGOREAN THEOREM		0		-		0	0	3			_
CHROUTS ON WEER TO SIME WHEN WORKING WITH RCL 13 40 50 50 0 0 19 17 25 17 18 19 10 50 10 10 15 10 17 25 17 17 18 10 10 10 10 10 10 10 10 10 10 10 10 10		MORKING WITH RCL CIRCUITS			1								
LIRECUIS LOGO TOU USE OR REFER TO COSINE WHEN WORKING WITH RCL LIRECUIS L	=	DI-O4 DO YOU USE OR REFER TO SINE MAEN MORKING WITH CHECKING		9				0		-	_		
DI-00 00 USE ON REFER TO TANGENT WHEN WORKING WITH RCL [18CUITS		DI-05 DY YOU USE OR REFER TO COSINE WHEN WORKING WITH		0	1			0			1		1.
CHROUTS CHR	•	DI-GE DO YOU USE ON REFER TO TANGENT WHEN WORKING WITH		0	1		-	0		1 5			
DI-09 DO YOU USE OR REFER TO TRUE POWER (PT) WHEN WORKING 11 90 92 92 0 0 0 10 10 10 10 10 10 10 10 10 10 10	0	CIRCUITS		C	-	-			-				
DI-08 DO YOU USE OR REFER TO TRUE POWER (PT) WHEN WORKING II 90 42 42 0 0 0 10 10 10 10 10 10 10 10 10 10 10		CIRCUITS		2									
NITH REL CIRCUITS NOTION USE OF REFER TO MAXIMUM POWER (PM) WHEN NOTION USE OF REFER TO AVERAGE POWER (PM) WHEN NOTION USE OF REFER TO AVERAGE POWER (PM) WHEN NOTION USE OF REFER TO APPARENT POWER (PM) WHEN NOTION USE OF REFER TO RESONANT CIRCUITS WHEN NOTION USE OF REFER TO BANDWIOTH WHEN WORKING WITH 17 40 58 58 25 0 105 27 24 35 NOTION USE OF REFER TO BANDWIOTH WHEN WORKING WITH 18 40 58 58 25 0 105 31 20 40 NOTION USE OF REFER TO BANDWIOTH WHEN WORKING WITH 19 40 42 42 25 0 105 37 24 35 NOTION USE OF REFER TO BANDWIOTH WHEN WORKING WITH 18 40 58 58 25 0 105 37 24 35 NOTION USE OF REFER TO BANDWIOTH WHEN WORKING WITH 19 40 50 50 50 00 00 00 00 00 00 00 00 00 00		DI-OB DO YOU USE OR REFER TO TRUE POWER (PT) WHEN		0				0		0	0	0	
MORKING MITH RCL CIRCUITS 01-10 DD TOU USE OR REFER TO AVERAGE POWER (PAVE) WHEN WORKING MITH RCL CIRCUITS 01-11 DD TOU USE OR REFER TO AVERAGE POWER (PA) WHEN WORKING MITH RCL CIRCUITS 01-12 DD TOU USE OR REFER TO POWER FACTOR (PF) WHEN WORKING B 40 42 42 0 0 0 0 5 5 5 5 5 5 5 5 5 5 5 5 5 5 5	0	WITH RCL CIRCUITS		5		•	1		1	,		1	
MORKING WITH RCL CIRCUITS WORKING WITH RCL CIRCUITS WORKING WITH RCL CIRCUITS DI-11 DO TOU USE OR REFER TO APPARENT POWER (PA) WHEN WORKING B 90 92 92 0 0 0 5 5 5 5 5 6 70 70 10 10 10 10 10 10 10 10 10 10 10 10 10	-	TOTAL STATE OF THE	,	2		•			0	,	-	-	
MORKING MITH RCL CIRCUITS DI-11 DO TOU USE OR REERR TO APPARENT POWER (PA) WHEN DI-12 DO TOU USE OR REERR TO APPARENT POWER (PF) WHEN WORKING MITH RCL CIRCUITS DI-12 DO TOU USE OR REFER TO POWER FACTOR (PF) WHEN WORKING MITH RCL CIRCUITS DI-13 DO TOU USE OR REFER TO RESONANT CIRCUITS WHEN DI-14 DO TOU USE OR REFER TO BANDWIDTH WHEN WORKING WITH RCL CIRCUITS DI-15 DO TOU USE OR REFER TO BANDWIDTH WHEN WORKING WITH RCL CIRCUITS DI-16 DO TOU USE OR REFER TO RESONANT FREQUENCY WHEN MORKING WITH RCL CIRCUITS DI-16 DO TOU USE OR REFER TO BANDPASS REGION WHEN WORRING MORKING WITH RCL CIRCUITS DI-18 DO TOU USE OR REFER TO BANDPASS REGION WHEN WORRING MITH RCL CIRCUITS DI-19 DO TOU USE OR REFER TO BANDPASS REGION WHEN WORRING MITH RCL CIRCUITS MORKING WITH		DI-10 DO YOU USE OF REFER TO AVERAGE POWER (PAVE)		0						5			
DI-11 DO TOU USE OR REFER TO APPARENT POWER (PA) WHEN MORKING WITH RCL CIRCUITS MITH RCL CIRCUITS MORKING WITH RCL CIRCUITS MITH RCL CIRCUITS MORKING WITH RCL CIRCUITS MORKING WIT		WORKING WITH RCL CIRCUITS		-		-		1			1		
DI-12 DO TOU USE OF REFER TO POWER FACTOR (PF) WHEN WORKING 8 40 58 58 25 0 100 31 20 40 MITH RCL CIRCUITS MITH RCL CIRCUITS MITH RCL CIRCUITS MORKING WITH RCL CIRCUITS DI-13 DO TOU USE OF REFER TO BANDWIOTH WHEN WORKING WITH 17 40 58 58 25 0 100 27 24 35 RCL CIRCUITS RCL CIRCUITS DI-15 DO TOU USE OF REFER TO BANDWIOTH WHEN WORKING WITH 13 40 50 50 0 0 0 0 21 21 21 20 RCL CIRCUITS DI-15 DO TOU USE OF REFER TO RESONANT FREQUENCY WHEN 17 40 67 67 25 0 100 35 33 40 MORKING WITH RCL CIRCUITS DI-16 DO TOU USE OF REFER TO RESONANT FREQUENCY WHEN 17 40 67 67 25 0 100 35 33 40 MORKING WITH RCL CIRCUITS DI-17 DO TOU USE OF REFER TO BANDPASS REGION WHEN WORKING WITH 6 40 58 58 25 0 100 19 19 19 20 MITH RCL CIRCUITS		DISTILL DO TOU USE OR REFER TO APPARENT POWER (PA)		9				0	0	s			
MITH RCL CIRCUITS MITH RCL CIRCUITS MORKING WITH RCL CIRCUITS MORKING WITH RCL CIRCUITS D1-13 DO TOU USE OR REFER TO BANDWIOTH WHEN WORKING WITH IJ 90 50 50 0 0 0 0 21 24 35 8CL CIRCUITS RCL CIRCUITS D1-15 DO TOU USE OR REFER TO SELECTIVITY WHEN WORKING WITH IJ 90 50 50 0 0 0 0 21 21 21 20 8CL CIRCUITS D1-15 DO TOU USE OR REFER TO RESONANT FREQUENCY WHEN IJ 90 67 67 25 0 100 35 33 90 90 90 1-15 DO TOU USE OR REFER TO RESONANT FREQUENCY WHEN IJ 90 67 67 25 0 100 35 33 90 90 90 1-15 DO TOU USE OR REFER TO BANDPASS REGION WHEN WORKING II 90 67 67 25 0 100 19 19 20 90 1-15 DO TOU USE OR REFER TO BANDPASS REGION WHEN WORKING WITH 6 90 50 58 58 25 0 100 13 19 19 20 90 1-15 DO TOU USE OR REFER TO CIRCUITS	0	DI-12 DO YOU USE OR REFER TO POSER FACTOR (PF) WHEN		0	2			0	C		1		
DI-13 DO TOU USE OR REFER TO RESONANT CIRCUITS WHEN WORKING WITH RCL CIRCUITS OI-15 DO TOU USE OR REFER TO BANDWIDTH WHEN WORKING WITH 17 4G 58 58 25 0 100 27 24 35 35 40 70 USE OR REFER TO SELECTIVITY WHEN WORKING WITH 18 4G 5G 5G 0 0 0 0 21 21 21 20 8CL CIRCUITS OI-16 DO TOU USE OR REFER TO RESONANT FREQUENCY WHEN MORKING WITH RCL CIRCUITS DI-17 DO TOU USE OR REFER TO BANDPASS REGION WHEN WORKING WITH 18 4G 42 42 72 25 0 100 8 7 10 WORKING WITH RCL CIRCUITS DI-18 DO TOU USE OR REFER TO BANDPASS REGION WHEN WORKING WITH 19 4G 58 58 25 0 100 13 14 10 RCL CIRCUITS		WITH MCL CIRCUITS											
Post		MORKING WITH BCI CLOCKITS		0								-	
RCL CIRCUITS 01-15 DO TOU USE OR REFER TO SELECTIVITY WHEN WORKING WITH 13 40 50 50 0 0 0 21 21 20 20-15 20 TOU USE OR REFER TO RESONANT FREQUENCY WHEN 17 40 67 67 25 0 100 35 33 40 WORKING WITH RCL CIRCUITS 01-17 DO TOU USE OR REFER TO HALF POWER POINTS WHEN WORKING WITH RCL CIRCUITS 01-18 DO TOU USE OR REFER TO BANDPASS REGION WHEN WORKING WITH 6 40 58 58 25 0 100 13 14 10 RCL CIRCUITS	-	DI-14 DO YOU USE OF REFER TO BANDWIDTH WHEN WORKING WI		0		-							-
REL CIRCUITS 01-10 00 YOU USE OR REFER TO RESONANT FREQUENCY WHEN 01-17 00 YOU USE OR REFER TO RESONANT FREQUENCY WHEN WORKING WITH RCL CIRCUITS 01-17 00 YOU USE OR REFER TO BANDPASS REGION WHEN WORKING WITH RCL CIRCUITS		ACL CIRCUITS	•		1								
01-10 DO 700 USE OR REFER TO RESONANT FREQUENCY WHEN WORKING WITH RCL CIRCUITS DO 700 USE OR REFER TO MALE POWER POINTS WHEN WORKING WITH RCL CIRCUITS D1-10 DO 700 USE OR REFER TO BANDPASS REGION WHEN WORKING II 40 67 67 25 0 100 19 19 20 WITH RCL CIRCUITS MITH RCL CIRCUITS		ACI CIRCUITS	2	2									
MORKING WITH RCL CIRCUITS MORKING WITH RCL CIRCUITS MORKING WITH RCL CIRCUITS MORKING WITH RCL CIRCUITS MITH RCL CIRCUITS	2	DI-IS DO YOU USE OR REFER TO RESONANT FREQUENCY	1.3	0	1	2					2		
DI=17 00 YOU USE OR REFER TO HALF POWER POINTS WHEN 8 40 42 42 25 0 100 8 7 10 WORKING WITH RCL CIRCUITS WORKING WITH RCL CIRCUITS		MORKING WITH PCL CIPCUITS			-	-	-			-	-		
DI=18 DO TOU USE OR REFER TO BANDPASS REGION WHEN WORKING III 40 67 67 25 0 100 19 19 20 WITH RCL CIRCUITS WITH RCL CIRCUITS WITH DO YOU USE OR REFER TO CIRCUIT 9 WHEN WORKING WITH 6 40 58 58 25 0 100 13 19 10 RCL CIRCUITS	7	DI-17 OF YOU USE OR REFER TO HALF POWER POINTS		0					0		1 10	_	
WITH RCL CIRCUITS 01-19 DO YOU USE OR REFER TO CIRCUIT 9 WHEN WORKING WITH 6 40 58 58 25 0 100 13 19 10 RCL CIRCUITS	20	DI-18 DO YOU USE ON REPER TO BANDPASS REGION WHEN	=	0				-	0		• 21	0	
DI-19 DO YOU USE OR REFER TO CIRCUIT & MMEN WORKING WITH 6 40 58 58 25 0 100 13 14 10 MCL CIRCUITS		MITH ACL CIRCUITS							,				
	20	DI-19 DO 10U USE OR REFER TO CIRCUIT & MMEN MORKING MI		0		~				-			

PCT MBRS RESPONDING .YES. BY SELECTED GRPS

GPSH48 PAGE 9

204	0y-15k	5 PC	SPC 0 6 5	SPC 046	SPC 067	260	SPC 070	5°C	SPC 072	SPC 073	SPC 074	SPC 075	
		2	40	67	67	52	0	100	3.	ē	30	22	
205 0	0	٠	•	•	•	0	0	٥	•	~	S	•	
	USING FORMULAS	,	5	•	•	•	•		•	,	J	c	
0 700	DISCRESS FOR CIRCUITS	•	2	0	•	0	•	0	•	•	•	•	
0 207	0	*	9	25	52	a	0	a	0	,	15	•	
	CIRCUITS				•		(•	,	•	•	
508	B DI-24 DG TOU CALCULATE PHASE ANGLES BETWEEN IMPEDANCE AND RESISTANCE IN CAPACITIVE CIRCUITS	•	2	17	11	a	0	a	7	0	•	0	
0 200		7	40	35	52	a	0	9		1	0	٠	
0 210	CIRCUITS D 11-26 DO YOU CALCULATE IMPEDANCE ANGLES FOR SERIES RCL	*	0	11	17	a	0	a	•	7	9	•	
0 211	CIRCUITS DI-27 DO YOU CALCULATE APPARENT FOWER (PA) F	•	ę	35	52	٥	٥	a	•	ıs	2	•	
0 212	CIRCUITS 2 DI-28 DO YOU CALCULATE TRUE POWER (PT) FOR SERIES RCL	*	9	33	33	0	0	c	٠	s	10	•	
	CINCUITS DI-29 DO YOU CALCULATE POWER FACTORS	*	9	-	1.1	c	0		•	•	0	•	
	CIRCUITS		•	:	:		•			J	-		
	TOTAL CALL COLUMN TOTAL COLUMN	•		:	:	a (a (2		
	CIRCUITS		2		1	2	•		•	•	2	•	And the second s
516	6 01-32 00 YOU CALCULATE TOTAL IMPEDANCE FOR PARALLEL RCL	*	•	17	17	a	٥	a	۰	5	0	•	
217	DI-33 DO YOU CALCULATE TOTAL IMPEDAN	٠			13	a	0	a	10	•	15	2	
	CIRCUITS USING OHM'S LAW		:				•			;			
218	S DIEST DO TOU CARCA CAPACITORS USING DENNETR'S	21	9 6	83	83	20	2 ?	000	2	56	9	20	
220	DI-36 DO TOU CHECK INDUCTORS USING O	1	0	75	7.5	200	3.5	00	52		0	22	
221	DI-37 DO TOU CHECK INDUCTORS USING SUBSTITUTIO	•	20	41	67	20	33	100	7	13	0	0	
222	10 00 ME-10	7	20	0	65	o	0	а	2	~	0	•	
223	DI-39 DO YOU CALCULATE RESONANT FREDUENCIES	•	0	52	35	25	33	0	=	1.2	0	•	
224	CIRCUITS OF SECRET TO THE SENEBRY BUT	•	0		:	26	17	•	4	^	-	•	
	IMPEDANCE IS MINIMUM AND CURRENT MAXIMUM AT T							2			2		
225	FREQUENCY FOR SERIES RCL CIRCUITS	10	0.	25	52	25	33	0	•	~	-	•	
	· V												STATE OF STREET
226	DI-42 DO YOU USE OR REFER TO THE GENERAL RULE THAT HAL	۰	0	20	20	25	33	a	:	15	0	•	
227	0	*	9	33	33	25	33	a	s	s	s	٠	
0 228	BANDMIDTM IS INVERSELY PROPORTIONAL TO S DI-44 DO YOU OFTERNINE HOW CHANGES IN FEFFE CHOCKY	•	9	11	-1	a	o	a	•	0	5	٠	
	, CAPACITANCE, OR ENDUCTANCE WILL AFFECT CURRENT OR PHASE AFFICE FOR RCL CIRCUITS												

TASK GROUP SUNMARY

	0γ-15K	0.00	290	200	267	5 P C	070	5 PC	SPC 072	SPC 5	200	975 075
0 229	D2-01 IN YOUR PRESENT LOS. DO YOU WORK WI	17	40	42	4.2	50	33	100	23	29	10	22
	TO SERIES OR PARALLEL RESONANT CIRCUITS OR TIME CONSTANT											
230	02-02 DO YOU WORK WITH, USE, OR REFER TO TIME CONSTA	7 7	40	45	42	52	33	0	5	24	01	13
0 231	DZ-03 DO YOU WORK WITH, USE, OR REFER TO		9	52	52	0	0	0	•	1	s	
232	D3-04 DO YOU WORK WITH, USE, OR REFER TO	•	9	11	17	a	0	a	•	1	s	TAKALLEL RESUNANCE
	INTERVALS									1		
0 233	02-05 DO YOU USE OR REFER TO THE GENERAL RULE THA	*	•	25	52	a	0	a		24	s	11
	ITOR IS FULLY CHARGED (OR DISCHA											
	76.)											
234	02-06 DO YOU USE OR REFER TO UNIVERSAL TIME C	7	0	0	0	0	0	0	•	1	s	•
235	D2-07 DO YOU USE EQUATIONS OF FORMULAS TO DETER	*	9	0	0	a	0	a	2	s	s	•
	IT VOLTAGES											
	TIME FOR RC OR LR CIRCUITS		-									
236	DZ-08 DO YOU USE EGUATIONS OR FORMULAS TO DETERMINE THE	*	•	52	52	0	0	0	~	~	2	•
	TIME REQUIRED FOR CIRCUIT CURRENT OR COMPONENT VOLTAGES TO				-	-			-	-		
	REACH SPECIFIC VALUES FOR MC OR LR CINCUI											
237	D2-09 DO YOU USE EQUATIONS OR FORMULAS TO DETE	•	9	17	11	a	0	a	•	7	s	
	IT CURRENT AND											
	VALUES IP								/			
	The same of the sa											
238	UZ-10 DO YOU USE OR REFER TO THE GENERAL RULE THAT C	*	40	25	25	0	a	a	•	10	2	13
	VALUE LOR											
239		34	80	83	83	50	13	100	0	0	0+	30
	PRESENT JOB											
240	03-02 00	6!	0	92	85	20	77	100	31	26	0.	11
241	03-03 DO YOU	=	20	7.5	7.5	25	0	1 0 D	9.2	•	0 *	•
242	03-04 DO YOU ALIGN OR ADJUST FILTER CIRC	1.1	0	58	5.8	52	33	0	23	7.4	20	17
243	03-05 DO YOU TROUBLESHOOT TO THE FILTE	32	9	83	83	0	٥	0	27	54	35	13 FILTERS
244	03-06 DO YOU TROUBLESHOOT TO COMPONENT PARTS	5	0.9	83	83	50	13	100	24	• 1	35	13
245	D3-07 DO YOU RENOVE OR REPLACE THE CON	2.	09	83	63	20	33	100	36	•	0	
246	03-08 DO YOU REMOVE OR REPLACE FILTER CIRCUIT	13	20	92	9.2	25	33	0	23	1.1	35	•
	PARTS											
297	03-09 DO YOU WORK	13	40	5.8	8.8	90	33	100	5.0	7.0	20	
848	03-10 DO YOU WORK	-	0 *	28	5.0	50	13	100	54	3.6	20	13
642	03-11 DO YOU WORK	15	0	90	20	50	33	100	36	5.6	20	17
250	03-12 DO YOU WORK WITH BAND-REJECT FIL	7	0	33	33	25	0	100	2.4	5.6	30	1.7
251	DATE DON'T REMEMBER WHICH TYPE OF	17	40	33	33	25	13		23	2.1	25	26
25.2	NOT THE DO YOU WORK BILL INCIDENTIAL TOWN THE PROPERTY OF	•	04	9.2	4 2	20	13	100	26	29	20	1.7
25.	THE DO YOU WORK WITH TASKETION OF THE	1		100		2 0		000	0	•	30	
2 2	CALLES MONEY AND MONEY OF A CALLED) ¥			::	200	0	000	4			
200	The second secon	0	0 0	2 6	20	6	0	000		31	2 0	
433	TOTAL SOLD STATE OF THE STATE O	9 .	7 .	62	67	0		0			67	97
456	3	2	9	0	•	00	77	00	6.3		20	97
7	CIRCUITS		5		8	3			9		;	;
0	Contract of the rest of the state of the sta		20	0	0	2	2	2			63	
28.0		:	4		9	,	:					**
						-						

PCT MBRS RESPONDING . YES' BY SELECTED GRPS

GPSM48 PAGE 11

TASK GHOUP SUMMARY

2	1	2	מעור אין היי של אין												
			DY=15K	SPC 064	240	960	5 PC	5PC 069	070	5PC	5PC 072	SPC 073	500	SPC 075	
259		NOO	REMEMBER WHICH TYPE OF BASIC CIRCUIT	21	20	33	33	5	0	0	23	21	35	22	
260	0 03-22 CAPA	CITAN	LAS TO	*	20	11	-	0	0	0		01	0		
		ERS			1	1							1		
197		000	THE DE TOO TOO TOO TO THE TOO DESTREE TO THE TOO THE TOO TO THE TOO THE TOO TO THE TOO THE TOO TO THE TOO THE TOO TO THE TOO THE TOO TO THE TOO THE TOO TO THE TOO THE TOO TO THE TOO THE TOO TO THE TOO THE TOO TO THE TOO THE TOO TO THE TOO THE TOO TO THE TOO THE TOO TO THE TOO THE TOO TO THE TOO TO THE TOO TO THE TOO TO THE TOO THE TOO TO THE TOO TO THE TOO THE TOO TO THE TOO THE TOO TO THE TOO THE TOO THE TOO TO THE TOO THE TOO THE TOO TO THE TOO THE TOO TO THE TOO	2 - 2	2	100	0	6		000		9	0	26	-
9		THE ACTUA	WITH RC	:	2	8		2	•	2		:	2	;	
243		, 00	TACBANC AND	. 7	4	4.1		7.	13	100	3			3,5	
•		ACTUA	ASSOCIATED WITH		2					2			2		COUPLING
564	4 E1-04	A 00	T ON SCHEMATIC DI	1 5	0 *	67	67	7.5	6.7	100	4.5	8	0.	4.3	
		ACTUA	1750												
245		00	EI-US DO YOU TROUBLESHOOT CIRCUITS WHICH HAVE COMPONENTS	21	•	88	5.8	75	19	100	9	9	0	35	
		H PER													
266		00	E1-06 DO YOU TROUBLESHOOT CIRCUITS WHICH MAVE COMPONENTS	15	0	67	67	75	67	100	39	0	35	35	
267		DO Y	MMICH PERFORM IMPEDANCE COUPLING E1-07 DO YOU TROUBLESHOOT CIRCUITS WHICH MAYE COMPONENTS	-	9	67	67	75	47	100	34	38	0	30	
. 10		1 PER	THE TO SO IN THE MAN THE PROPERTY OF THE PROPE	:		9		,		5	:	:		,	
240		200	THE PROPERTY OF STATE			2 0	200	2	14				15	200	
		CIRCUITS		3	2	2	n			2	,	?	:	2	
270		1-10 00 Y	EI-10 DO YOU WORK WITH CAPACITIVE-INDUCTIVE COUPLED CIRCUITS	•	40	20	20	75	63	100	34	?	30	35	
271	11-13 1	00	EI-11 DO YOU MORK MITH TRANSFORMEN COUPLED CIRCUITS	2	0	20	20	75	67	100	*	45	35	3.6	
272	2 61-12	DOM	REMEMBER WHICH TYPE OF COUPLING CIRCUITS	•	0	11	-	9	0	a	6	•	20	20	
273	1 E2-01	N SOE	E2-01 IN YOUR PRESENT JOB, DO YOU PERFORM SOLDERING TECHNIQUES OF INSPECT OR EVALUATE SOLDERED CONNECTIONS	79	20	100	100	100	100	001	-		80 52	63	
279	lai	¥ 00	-	* 9	20	9.2	9.2	7.6	17	100	14	0.9	4.5	59	
275		00	2	5.1	50	92	9.2	20	33	100	6.5	04	102	6.5	
576		00		55	20	100	100	75	001	٥	5.8	55	6.5	8 8	SOLDERING
277		00	STRIP INSULATION FROM MI	11	20	100	100	100	100	100	8.2	•	8 5	87	
278		00	CONNECT OR DISCONNECT H	53	20	100	100	100	100	100	0.4	29	55	10	
513		00		75	20	000	100	100	100	100	8	-	00	87	
280		00	CUT #1RES	79	20	100	100	100	100	100	8.2	- 8	85	87	
187		00		5.7	30	67	67	75	6.7	100	0.	04	0.0	19	
787		00		75	20	100	100	100	100	100		14	85	87	
28		00	CLEAN SOLDERING IRON TIPS	75	30	100	100	75	6.7	100	82	8 1	6.5	87	
284		00		\$3	20	83	83	20	67	0	5 6 2	31	52	2.6	
285		00		70	30	2 6	42	100	100	100	7.4	74	7.5	63	
284		00		11	20	100	100	100	100	100	16	7.4	80	83	
60		00	DESOLDER CONNECTIONS BY MICKING	\$ 5	20	63	6.3	52	33	a	œ •	5	55	25	
8	1001 E	00	TOU DESOLDER COMMECTIONS USING VACUUM DESOLDERING	£.	20	42		100	100	100	0.0	•	10	9	
289	19 82-17		DO YOU CUT COMPONENT LEADS TO REMOVE COMPONENTS	45	20	63	6.3	25	33	0	52	8	5 9	5.2	
29	0 62-18 00		4-0	0.1	0	33	33	25	33	a	27	24	35	35	-

PCT MBRS RESPONDING .TES. BY SELECTED GRPS

GPSH48 PAGE 12

TASK GROUP SUMMARY

PERCENT ALAGENS PERFORMING												
	SPC	SPC	U	SPC SP	PC SPC	SP	C SPC	2	SPC	SPC		
07-15x				C		00		07	07	075		
291 E2-19 DO YOU MAKE HARDWIRE CONNECT	99	20	6.5	-	0 10	-		1	7	74		
MAKE PRINTED CINCUIT BOARD CONNECTIONS	13	0		00	0	3 100	53			43		
293 E2-21 DO YOU SOLDER PASSIVE COMPONENTS S	13	0	1001			-		*	S	43		
NTS SU	13	0	1001	100	50 13	0.	9	45	55	3.9		
DIODES OR TRANSISTORS ON PRINTED CIRCUIT BOARDS		1										
295 E3-01 DO YOU MORK WITH RELAYS ON YOUR PRE	9.9	0.0	1 00 1	01 00		0		2 81	85	7.8		
E3-02 DO YOU ADJUST RELAYS	23	0	20				7		1 20	36		-
297 E3-03 DO YOU	61	0	2.9		25 3	9		12		17	RELAYS	•
E3-04 DO YOU INSPECT RELAYS	45	0	1 001	00						•		
299 E3-05 DO YOU REMOVE OR REPLACE COMPLETE	36	09	00		-	-	-	-		9		
E3-06 DO YOU REMOVE OR REPLACE PART	=	0			0					17		
00 400	99	80	-	00	-	-				10		
302 E3-08 DO YOU STRAIGHTEN RELAY CONTACTS	6.7	20	42		0 33	~	34	4 24		30		
303 E3-09 DO YOU PERFORM TASKS ON RELAY		0	42							30		
304 E3-10 DO YOU PERFORM TASKS ON RELAY	•	0	æ							*		
00 700	•	0	17							•		
306 E3-12 DO TOU PERFORM TASKS ON RELAY	۰	0	100							*		
307 E3-13 DO YOU PERFORM TASKS ON RELAY	•	0	00	00	0			0		-		
E3-14 DO YOU USE OR REFER TO SINGLE	15	80	42			-	•	9 71	6.5	4.5		•
TIC SYNBOLS FOR												•
E POLE, SINGLE THROW	5.1	80	9.2	92	75 67	01	• 0	9 71	6.5	6.5		
(SPST), NORMALLY CLOSED INC) SCHEMATIC SYMBOLS !		-		-	-			*		-		-
TO SINGLE	41	80	1001	00	75 67	100	•	4 6	09	10		
STATE TO SCHEMATIC STRBOLS FOR RELATS	9 1	d		4			7	0	37	44		
COOL COLEMA CO CALCO COLOR COL				0	0	2			0			
FER TO OTHER	55	0.8	1 001	00	50 33	01	•	6 67	50	19		
SYMBOLS FOR RELAYS												
E 313 E3-19 DO YOU CHECK ELECTRICAL CONTINUITY OF COILS BY	0.4	80	1 001	00	5 67	10	9 0	8 67	10	6.5		
MEASURING RESISTANCE		-		-						1		
TOTAL THE TAXABLE TOTAL	•	0.7	10		0	,	0	•	0	1		-
315	7	0	90	40						0		
FI-03 DG YOU CLEAM MICROPHONES	7	0	89							•		
317 FI - 04 DO YOU OPERATE MICROPHONE	•	20	æ	00	0	0	0	2	0	•	TWOUGODIA	MEG
FI-US DO YOU TROUBLE SHOOT AS FAR AS CHECKING	r	50	10							13	STEROLDO	O TA
COMMECTIONS BUT DO NOT TROUBLESHOOT												
PARTS OR MICROPHONES												1
319 F1-06 DO YOU TROUBLESHOOT DOWN TO MICRO	2	0	80							•		
320 FI 07 DO YOU RENOVE OR REPLACE COMPLETE M	*	0	80	00						•		-
321 F1-08 DO YOU REMOVE OR REPLACE MICRO	2	0	æ	60						er :		
322 FIRDY DO YOU PEHFORM TASKS ON CARBON MI	8	0	80	00						0		
FI-10 DO YOU PERFORM TASKS ON CAPACITOR MICROPHO	2	0	90	0						•		福
324 FI-11 OG YOU PERFORM TASKS ON CHYSTAL MICROPHOME	8	0	10	æ						•		
OU PERFORM TASKS ON DYNAMIC MICROPHONE	3	0	Ø		0	0	0	2 1	0			
FIRES DO YOU PERFORM TASKS ON VELOCITY	7	0	90	80						F		

PCT MBRS RESPONDING .YES. BY SELECTED GRPS

GPSM46 PAGE 13

TASK GROUP SUMMARY PERCENT MEMBERS PERFORMING

13.2 13.0	11 12 12 12 13 14 15 15 15 15 15 15 15	DY-TSK		SPC 064	2 6 5	SPC 066	SPC 067	SPC 069	070	SPC 071	SPC 072	073 D	5PC	SPC 075	
	11 12 12 12 12 12 13 14 15 15 15 15 15 15 15	327 FZ-01 IN	PERFORM ANY TASKS	9	20	25	35	0	a	0	7	2	0		
13.2 72.2 0.0 0.	7.200 0.00 MAPPICE FREAKINS	348 TLIM													
131 72-03 00 700 UPERANE SERVERS 2 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	313 (72.09 to 0.00 premises) 22 (2016) (201	328 F2-02		~	50	17	17	0	a	0	2	7	0	•	
17.70 17.7	13.1 F200 10 10 MEANE SALES AND CHECKING WIFE 14.1 F200 10 10 MEANE SALES AND CHECKING WIFE 15.2 F200 10 10 MEANE SALES AND CHECKING WIFE 15.3 F200 10 10 MEANE SALES AND CHECKING WIFE 15.3 F200 10 10 MEANE SALES AND CHECKING WIFE 15.3 F200 10 10 MEANE SALES AND CHECKING WIFE 15.3 F200 10 10 MEANE SALES AND CHECKING WIFE 15.3 F200 10 10 MEANE SALES AND CHECKING WIFE 15.3 F201 10 10 MEANE SALES AND CHECKING WIFE 15.3 F201 10 10 MEANE SALES AND CHECKING WIFE 15.3 F201 10 MEANE SALES AND CHECKING WIFE 15.3 F201 10 MEANE SALES AND CHECKING WIFE 15.3 F201 10 MEANE SALES AND CHECKING WIFE 15.4 F201 10 MEANE SALES AND CHECKING WIFE 15.4 F201 10 MEANE SALES AND CHECKING WIFE 15.5 F201 10 MEANE SALES AND CHECKIN	329		7	0	3 0	40	0	0	0	0	0	0	0	SPEAKERS
13.1 F2.05 D F VOT MUSICAL STATES AS CREATING WINE PARTS OF SELECTION OF SELECT	13.1 F 2-05 D 70 W TO WOULE ENDOING 13. F AR 8.5 CHECKING WINE 13.2 F 2-05 D 70 W TO WOULE ENDOING 13. F AR 8.5 CHECKING WINE 13.3 F 2-05 D 70 W TO WOOLE HOUSE TO WELLE FOR FARES 13.3 F 2-05 D 70 W TO WOOLE HOUSE TO WOULE FOR FARES 13.3 F 2-05 D 70 W TO WOOLE HOUSE TO WOULE FOR FARES 13.3 F 2-05 D 70 W TO WOOLE HOUSE TO WOULE FOR FARES 13.3 F 2-05 D 70 W TO WOOLE HOUSE TO WOULE FOR FARES 13.3 F 2-05 D 70 W TO WOOLE FOR FARES 13.4 F 2-05 D 70 W TO WOOLE FOR FARES 13.5 F 2-0	330		*	٥	11	17	0	a	0	2	7	0	•	
337 F2-06 DO TOU TROUBLESHOOT DOWN TO SPEAKER PARTS 2 0 6 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	13.7 F 2-06 DO TOU TROUBLESHOOT DOWN TO SPEAKER PARTS 1 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	331	S CHECKING OT DOWN TO	•	20	25	52	0	a	0	7	~	0	7	
1313 72-00 DO VOU PREPARE HOUSE TENER PARIS 3134 72-00 DO VOU PREPARE HOUSE TENER PARIS 3135 72-00 DO VOU PREPARE HOUSE TENER PARIS 3136 72-10 DO VOU PREPARE HOUSE TENER PARIS 3137 72-00 DO VOU PREPARE HOUSE TENER PARIS 3137 72-00 DO VOU PREPARE HOUSE TENER PARIS 3137 72-00 DO VOU PREPARE HAY TAKES ON PREAKE PILED FOLLS 3137 72-10 DO VOU PREPARE HAY TAKES ON PREAKE PILED FOLLS 3137 72-10 DO VOU PREPARE HAY TAKES ON PREAKE PILED FOLLS 3137 72-10 DO VOU PREPARE HAY TAKES ON PREAKE PILED FOLLS 3137 72-10 DO VOU PREPARE HAY TAKES ON PREAKE PILED FOLLS 3137 72-10 DO VOU PREPARE HAY TAKES ON PREAKE PILED FOLLS 3137 72-10 DO VOU PREPARE HAY TAKES ON PREAKE PILED FOLLS 3137 72-10 DO VOU PREPARE HAY TAKES ON PREAKE PILED FOLLS 3137 72-10 DO VOU PREPARE HAY TAKES ON PREAKE PILED FOLLS 3137 72-10 DO VOU PREPARE HAY TAKES ON PREAKE PILED FOLLS 3137 72-10 DO VOU PREPARE HAY TAKES ON PREAKE PILED FOLLS 3137 72-10 DO VOU PREPARE HAY TAKES ON PREAKE PILED FOLLS 3137 72-10 DO VOU PREPARE HAY TAKES ON PREAKE PILED FOLLS 3137 72-10 DO VOU PREPARE HAY TAKES ON PREAKE PILED FOLLS 3137 72-10 DO VOU PREPARE HAY TAKES ON PREAKE PILED FOLLS 3137 72-10 DO VOU PREPARE HAY TAKES ON PREAKE PILED FOLLS 3137 72-10 DO VOU PREPARE HAY TAKES ON PREAKE PILED FOLLS 3137 72-10 DO VOU PREPARE HAY TAKES ON PREAKE PILED FOLLS 3137 72-10 DO VOU PREPARE HAY TAKES ON PREAKE PILED FOLLS 3137 72-10 DO VOU USE DOSCILLOSCOPES TO PREPARE LIFEAUGHT FOR SO TO	333 72-00 00 VOU PROPIEZHERSHOUT DEPERENT PARTS 335 72-00 00 VOU PROPIEZHERSHOUT DEPERENT PARTS 335 72-00 00 VOU PROPIEZHERSHOUT DEPERENT PARTS 335 72-00 00 VOU PROPIEZHE PROPIEZHE SPEARTS 335 72-00 VOU PROPIEZHE PROPIEZHE SPEARTS 335 72-00 VOU PROPIEZHE PROPIEZHE PROPIEZHE SPEARTS 335 72-00 VOU PROPIEZHE PROPIEZHE PROPIEZHE SPEARTS 336 72-00 VOU PROPIEZHE PROPIEZHE PROPIEZHE PROPIEZHE SPEARTS 337 72-00 VOU PROPIEZHE PROPIEZHE PROPIEZHE PROPIEZHE SPEARTS 337 72-00 VOU PROPIEZHE PROPIEZHE PROPIEZHE PROPIEZHE SPEARTS 338 72-00 VOU PROPIEZHE PROPIEZH PROPIEZH PROPIEZH PROPIEZHE PROPIEZH PROPIEZH PROPIEZH PROPIEZH PROPIEZH	PARTS OF SPEAKERS													
13.9 72-00 00 VOU REPORT OR REPLACE SPEAKER STATES 3.9 72-00 00 VOU REPORT OR REPLACE SPEAKER STATES 3.9 72-00 00 VOU REPORT OR REPLACE SPEAKER STATES 3.9 72-10 00 VOU REPORT ANY TAKES OF SPEAKER STATES 3.9 72-10 00 VOU REPORT ANY TAKES OF SPEAKER STATES 3.9 72-10 00 VOU REPORT ANY TAKES OF SPEAKER STATES 3.9 72-11 00 VOU REPORT ANY TAKES OF SPEAKER STATES 3.9 72-12 00 VOU REPORT ANY TAKES OF SPEAKER STATES 3.9 72-12 00 VOU REPORT ANY TAKES OF SPEAKER STATES 3.9 72-12 00 VOU REPORT ANY TAKES OF SPEAKER STATES 3.9 72-12 00 VOU REPORT ANY TAKES OF SPEAKER STATES 3.9 72-12 00 VOU REPORT ANY TAKES OF SPEAKER STATES 3.9 72-12 00 VOU REPORT ANY TAKES OF SPEAKER STATES 3.9 72-12 00 VOU SEPTIME ANY TAKES OF SPEAKER STATES 3.9 72-12 00 VOU SEPTIME ANY TAKES OF SPEAKER STATES 3.9 72-12 00 VOU SEPTIME ANY TAKES OF SPEAKER STATES 3.9 72-12 00 VOU SEPTIME ANY TAKES OF SPEAKER STATES 3.9 72-12 00 VOU SEPTIME ANY TAKES OF SPEAKER STATES 3.9 72-12 00 VOU SEPTIME ANY TAKES OF SPEAKER STATES 3.9 72-12 00 VOU SEPTIME ANY TAKES OF SPEAKER STATES 3.9 72-12 00 VOU SEPTIME ANY TAKES OF SPEAKER STATES 3.9 72-12 00 VOU SEPTIME ANY TAKES OF SPEAKER STATES 3.9 72-12 00 VOU SEPTIME ANY TAKES 3.9 72-12 00 VOU SEPTIME 3.0 100 100 100 100 100 100 100 100 100 1	13.7 2-07 00 VOU REPORT OF REPLACE SPEAKER STATES 3.9 72-09 00 VOU REPORT OF REPLACE SPEAKER COMES 3.9 72-09 00 VOU REPORT OF REPLACE SPEAKER COMES 3.9 72-10 00 VOU REPORT ANY TAKES ON SPEAKER FOUNDES 3.9 72-10 00 VOU REPORT ANY TAKES ON SPEAKER FOUNDES 3.9 72-10 00 VOU REPORT ANY TAKES ON SPEAKER FOUNDES 3.9 72-10 00 VOU REPORT ANY TAKES ON SPEAKER FOUNDES 3.9 72-10 00 VOU REPORT ANY TAKES ON SPEAKER FOUNDES 3.9 72-10 00 VOU REPORT ANY TAKES ON SPEAKER FOUNDES 3.9 72-10 00 VOU REPORT ANY TAKES ON SPEAKER FOUNDES 3.9 72-10 00 VOU REPORT ANY TAKES ON SPEAKER FOUNDES 3.9 72-10 00 VOU REPORT ANY TAKES ON SPEAKER FOUNDES 3.9 72-10 00 VOU REPORT ANY TAKES ON SPEAKER FOUNDES 3.9 72-10 00 VOU REPORT ANY TAKES ON SPEAKER FOUNDES 3.9 72-10 00 VOU REPORT ANY TAKES ON SPEAKER FOUNDES 3.9 72-10 00 VOU REPORT ANY TAKES ON SPEAKER FOUNDES 3.9 72-10 00 VOU REPORT ANY TAKES ON SPEAKER FOUNDES 3.9 72-10 00 VOU REPORT ANY TAKES ON SPEAKER FOUNDES 3.9 72-10 00 VOU REPORT ANY TAKES ON SPEAKER FOUNDES 3.9 72-10 00 VOU SET OFFI COMPANY TAKES ON SPEAKER FOUNDES 3.9 72-10 00 VOU SET OFFI COMPANY TAKES ON SPEAKER FOUNDES 3.9 72-10 00 VOU SET OFFI COMPANY TAKES ON SPEAKER FOUNDES 3.9 72-10 00 VOU SET OFFI COMPANY TAKES ON SPEAKER FOUNDES 3.9 72-10 00 VOU SET OFFI COMPANY TAKES ON SPEAKER FOUNDES 3.9 72-10 00 VOU SET OFFI COMPANY TAKES ON SPEAKER FOUNDES 3.9 72-10 00 VOU SET OFFI COMPANY TAKES ON SPEAKER FOUNDES 3.9 72-10 00 VOU SET OFFI COMPANY TAKES ON SPEAKER FOUNDES 3.9 72-10 00 VOU SET OFFI COMPANY TAKES ON SPEAKER FOUNDES 3.9 72-10 00 VOU SET OFFI COMPANY TAKES ON SPEAKER FOUNDES 3.9 72-10 00 VOU SET OFFI COMPANY TAKES ON SPEAKER FOUNDES 3.9 72-10 00 VOU SET OFFI COMPANY TAKES ON SPEAKER FOUNDES 3.9 72-10 00 VOU SET OFFI COMPANY TAKES ON SPEAKER FOUNDES 3.9 72-10 00 VOU SET OFFI COMPANY TAKES ON SPEAKER FOUNDES 3.9 70-10 00 VOU SET OFFI COMPANY TAKES STANCE FOUNDES 3.9 70-10 00 VOU SET OFFI COMPANY TAKES STANCE FOUNDES 3.9 70-10 00 VOU SET OFFI COMPANY TAKES STANCE FOUNDES 3.9 70-10 00 VOU SET ON	332 F2-06 DO	SPEAKE	7	0	80		c	0	c	0	0	0	0	
133 72-09 DO TOU PERFORM ANY 1585 ON STRACER COMES 136 72-10 DO TOU PERFORM ANY 1585 ON STRACER COMES 137 72-10 DO TOU PERFORM ANY 1585 ON STRACER FILED COLLEGE 138 72-10 DO TOU PERFORM ANY 1585 ON STRACER FILED COLLEGE 139 72-11 DO TOU PERFORM ANY 1585 ON STRACER FILED COLLEGE 139 72-12 DO TOU PERFORM ANY 1585 ON STRACER FILED COLLEGE 139 72-12 DO TOU PERFORM ANY 1585 ON STRACER FILED COLLEGE 139 72-12 DO TOU PERFORM ANY 1585 ON STRACER FILED COLLEGE 139 72-12 DO TOU PERFORM ANY 1585 ON STRACER FILED COLLEGE 139 72-12 DO TOU PERFORM ANY 1585 ON STRACER SPIT LOON CORLEGE 139 72-12 DO TOU PERFORM ANY 1585 ON STRACER SPIT LOON CORLEGE 139 72-12 DO TOU PERFORM ANY 1585 ON STRACER SPIT LOON CORLEGE 139 72-12 DO TOU PERFORM ANY 1585 ON STRACER SPIT LOON CORLEGE 139 72-12 DO TOU DESCRIPTION ANY 1585 ON STRACER SPIT LOON CORLEGE 139 72-12 DO TOU DESCRIPTION ANY 1585 ON STRACER SPIT LOON CORLEGE 139 72-12 DO TOU USE DOSCLILOSCOPES TO PERFORM ANY 1584 ON STRACER SPIT LOON CORLEGE 139 72-12 DO TOU USE DOSCLILOSCOPES TO PERFORM ANY 1584 ON STRACER SPIT LOON CORLEGE 139 72-12 DO TOU USE DOSCLILOSCOPES TO PERFORM ANY 1584 ON STRACER SPIT LOON CORLEGE 139 72-12 DO TOU USE DOSCLILOSCOPES TO PERFORM ANY 1584 ON STRACER SPIT LOON CORLEGE 139 72-12 DO TOU USE DOSCLILOSCOPES TO PERFORM ANY 1584 ON STRACER SPIT LOON CORLEGE 139 72-12 DO TOU USE DOSCLILOSCOPES TO PERFORM SPIT THEM TO TOU TOU TOU TOU TOU TOU TOU TOU TOU	133 72-09 00 VOU PERFORM ANY TARKS ON SPRAKE COINS 134 72-10 00 VOU PERFORM ANY TARKS ON SPRAKE SPIDES 135 72-10 00 VOU PERFORM ANY TARKS ON SPRAKE SPIDES 136 72-10 00 VOU PERFORM ANY TARKS ON SPRAKE FILE COILS 137 72-11 00 VOU PERFORM ANY TARKS ON SPRAKE FILE COILS 138 72-10 00 VOU PERFORM ANY TARKS ON SPRAKE FILE COILS 139 72-10 00 VOU PERFORM ANY TARKS ON SPRAKE FILE COILS 139 72-10 00 VOU PERFORM ANY TARKS ON SPRAKE FILE COILS 139 72-10 00 VOU PERFORM ANY TARKS ON SPRAKE FILE COILS 139 72-10 00 VOU PERFORM ANY TARKS ON SPRAKE FILE COILS 139 72-10 00 VOU PERFORM ANY TARKS ON SPRAKE FILE COILS 139 72-10 00 VOU PERFORM ANY TARKS ON SPRAKE FILE COILS 139 72-10 00 VOU PERFORM ANY TARKS ON SPRAKE FILE COILS 139 72-10 00 VOU PERFORM ANY TARKS ON SPRAKE FILE COILS 139 72-10 00 VOU PERFORM ANY TARKS ON SPRAKE FILE COILS 139 72-10 00 VOU PERFORM ANY TARKS ON SPRAKE FILE COILS 139 72-10 00 VOU PERFORM ANY TARKS ON SPRAKE FILE COILS 139 72-10 00 VOU PERFORM ANY TARKS ON SPRAKE FILE COILS 139 72-10 00 VOU PERFORM ANY TARKS ON SPRAKE FILE COILS 139 72-10 00 VOU PERFORM ANY TARKS ON SPRAKE FILE COINS 139 72-10 00 VOU PERFORM ANY TARKS ON SPRAKE FILE COINS 139 72-10 00 VOU PERFORM ANY TARKS ON SPRAKE FILE COINS 139 72-10 00 VOU PERFORM ANY TARKS ON SPRAKE FILE COINS 139 72-10 00 VOU PERFORM ANY TARKS ON SPRAKE FILE COINS 139 72-10 00 VOU PERFORM ANY TARKS ON SPRAKE FILE COINS 139 72-10 00 VOU PERFORM ANY TARKS ON SPRAKE FILE COINS 139 72-10 00 VOU PERFORM ANY TARKS ON SPRAKE FILE COINS 130 72-10 00 VOU PERFORM ANY TARKS ON SPRAKE FILE COINS 130 72-10 00 VOU PERFORM ANY TARKS ON SPRAKE FILE COINS 130 72-10 00 VOU PERFORM ANY TARKS ON SPRAKE FILE COINS 130 72-10 00 VOU PERFORM AND SPRAKE FILE COINS 130 72-10 00 VOU PERFORM AND SPRAKE FILE COINS 130 72-10 00 VOU PERFORM AND SPRAKE FILE COINS 130 72-10 00 VOU PERFORM AND SPRAKE FILE COINS 130 72-10 00 VOU PERFORM AND SPRAKE FILE COINS 130 72-10 00 VOU PERFORM AND SPRAKE FILE COINS 130 72-10 00 VOU PERFORM AND SPRAKE FILE COINS 130 72-10 00 VOU PERFORM AND SPRAKE FILE COINS 130	333 F2-07 DO YOU REMOVE	MPLETE SPEAKER	•	0	25	25		0) C	0	0	0	0	
133 72-10 00 00 100 FERTON ANT 1535 00 STRATER SUBJECTS 134 72-11 00 00 100 FERTON ANT 1535 00 STRATER SUBJECTS 135 72-10 00 100 FERTON ANT 1535 00 STRATER SUBJECTS 136 72-12 00 00 100 FERTON ANT 1535 00 STRATER SUBJECTS 137 72-15 00 00 100 FERTON ANT 1535 00 STRATER SUBJECTS 138 72-15 00 00 USE COSTILLOSCOPES TO STRATER SUBJECTS 139 72-15 00 00 USE COSTILLOSCOPES TO STRATER SUBJECTS 130 72-15 00 00 USE COSTILLOSCOPES TO STRATE SUBJECTS 131 72-15 00 00 USE COSTILLOSCOPES TO STRATE SUBJECTS 132 72-15 00 00 USE COSTILLOSCOPES TO STRATE SUBJECTS 133 72-15 00 TOU USE COSTILLOSCOPES TO STRATE SUBJECTS 134 72-15 00 TOU USE COSTILLOSCOPES TO STRATE SUBJECTS 135 72-15 00 TOU USE COSTILLOSCOPES TO STRATE SUBJECTS 136 72-15 00 TOU USE COSTILLOSCOPES TO STRATE SUBJECTS 137 72-15 00 TOU USE COSTILLOSCOPES TO STRATE SUBJECTS 138 72-15 00 TOU USE COSTILLOSCOPES TO STRATE SUBJECTS 139 72-15 00 TOU USE COSTILLOSCOPES TO STRATE SUBJECTS 130 72-15 00 TOU USE COSTILLOSCOPES TO STRATE SUBJECTS 131 72-15 00 TOU USE COSTILLOSCOPES TO STRATE SUBJECTS 132 72-15 00 TOU USE COSTILLOSCOPES TO STRATE SUBJECTS 134 72-15 00 TOU USE COSTILLOSCOPES TO STRATE SUBJECTS 135 72-15 00 TOU USE COSTILLOSCOPES TO STRATE SUBJECTS 136 72-15 00 TOU USE COSTILLOSCOPES TO STRATE SUBJECTS 137 72-15 00 TOU USE COSTILUS 138 72-15 00 TOU USE COSTILUS 138 72-15 00 TOU USE COSTILUS 139 72-15 00 TOU USE COSTILUS 130 72-15 00 TO	133 72-10 00 700 PERTON ANY 1585 ON SPEAKER SIDERS 134 72-10 00 700 PERTON ANY 1585 ON SPEAKER SIDERS 135 72-10 00 700 PERTON ANY 1585 ON SPEAKER PIELO COLLS 136 72-10 00 700 PERTON ANY 1585 ON SPEAKER PIELO COLLS 137 72-10 00 700 PERTON ANY 1585 ON SPEAKER PIELO COLLS 138 72-12 00 700 PERTON ANY 1585 ON SPEAKER PIELO COLLS 139 72-12 00 700 PERTON ANY 1585 PERTON	334 F2-08 DO YOU REMOVE OR REPLACE	AKER PARTS	2	0	• •	•	0 0	0	0 0	0	0	0	0	
131 77-10 00 YOU PREVENDEN ANY TAKES ON SPERKER FIRENCE CLISS COLLEGE COLLS 134 77-12 DO YOU PREVENDEN ANY TAKES ON SPERKER FIRENCE CLISS 135 77-12 DO YOU PREVENDEN ANY TAKES ON SPERKER FIRENCE CLISS 136 77-13 DO YOU PREVENDEN ANY TAKES ON SPERKER FIRENCE FOR SPERMINGHERES 137 77-13 DO YOU PREVENDEN ANY TAKES ON SPERKER FIRENCE FOR SPERMINGHERES 138 77-13 DO YOU PREVENDEN ANY TAKES ON SPERKER FIRENCE FOR SPERMINGHERES 139 77-13 DO YOU PREVENDEN ANY TAKES ON SPERMINGHERES 139 77-13 DO YOU PREVENDEN ANY TAKES ON SPERMINGHERES 139 77-13 DO YOU PREVENDEN ANY TAKES ON SPERMINGHERES 139 77-13 DO YOU PREVENDEN ANY TAKES ON SPERMINGHERES 139 77-13 DO YOU PREVENDEN ANY TAKES ON SPERMINGHERES 139 77-13 DO YOU PREVENDEN ANY TAKES ON SPERMINGHERES 139 77-13 DO YOU PREVENDEN ANY TAKES ON SPERMINGHERES 139 77-13 DO YOU PREVENDEN ANY TAKES ON SPERMINGHERES 139 77-13 DO YOU PREVENDEN ANY TAKES ON SPERMINGHERES 139 77-13 DO YOU USE CONTINUES CONTENT AND	135 72-10 00 100 ENTORNA MAY 1855 ON SERENCE STORES 136 72-12 DO TOUR ENTORNA MAY 1855 ON SERENCE FEEDOTILES 137 72-11 DO TOUR ENTORNA MAY 1855 ON SERENCE FEEDOTILES 138 72-12 DO TOUR ENTORNA MAY 1855 ON SERENCE FEEDOTILES 139 72-15 DO TOUR ENTORNA MAY 1855 ON SERENCE FEEDOTILES 139 72-15 DO TOUR ENTORNA MAY 1855 ON SERENCE FEEDOTILES 131 72-15 DO TOUR ENTORNA MAY 1855 ON SERENCE FEEDOTILES 132 72-15 DO TOUR ENTORNA MAY 1855 ON SERENCE FEEDOTILES 133 72-15 DO TOUR ENTORNA MAY 1855 ON SERENCE FEEDOTILES 134 72-15 DO TOUR ENTORNA MAY 1855 ON SERENCE FEEDOTILES 134 72-15 DO TOUR ENTORNA MAY 1855 ON SERENCE FEEDOTILES 134 72-15 DO TOUR ENTORNA MAY 1855 ON SERENCE FEEDOTILES 134 72-15 DO TOUR USE OSCILLOSCOPES TO PERFORMANT MAKENTS ON SERIOR DID TOUR TOUR TOUR SERIOR MAY 1855 ON SERVICE SERIOR MAY 1850 ON SERVICE	115 F2-09 DO YOU PERFORM ANY TAKE	CPS AKEB		0	d	•		0		0			c	-
131 75-12 TO YOU PREVENER ANY TARKS ON STERKER VOILES 132 75-12 TO YOU PREVENER ANY TARKS ON STERKER VOILES 133 75-12 TO YOU PREVENER ANY TARKS ON STERKER VOILES 134 75-13 TO YOU PREVENER ANY TARKS ON STERKER VOILES 135 75-13 TO YOU PREVENER ANY TARKS ON STERKER VOILES 136 75-13 TO YOU PREVENER ANY TARKS ON STERKER VOILES 137 75-13 TO YOU PREVENER ANY TARKS ON STERKER VOILES 138 75-14 TO YOU PREVENER ANY TARKS ON STERKER VOILES 139 75-15 TO YOU PREVENER ANY TARKS ON STERKER SET TOWN CORTS 131 75-15 TO YOU PREVENER ANY TARKS ON STERKER SET TOWN CORTS 131 75-15 TO YOU PREVENER ANY TARKS ON STERKER SET TOWN CORTS 131 75-15 TO YOU PREVENER ANY TARKS ON STERKER SET TOWN CORTS 131 75-15 TO YOU PREVENER ANY TARKS ON STERKER SET TOWN CORTS 131 75-15 TO YOU USE OSCILLOSCOPES TO PREVENE VIEW CORTS 132 75-15 TO YOU USE OSCILLOSCOPES TO PREVENE VIEW CORTS 134 75-15 TO YOU USE OSCILLOSCOPES TO PREVENE VIEW CORTS 135 75-15 TO YOU USE OSCILLOSCOPES TO PREVENE VIEW CORTS 136 75-15 TO YOU USE OSCILLOSCOPES TO PREVENE VIEW CORTS 137 75-15 TO YOU USE OSCILLOSCOPES TO PREVENE VIEW CORTS 138 75-15 TO YOU USE OSCILLOSCOPES TO PREVENE VIEW CORTS 139 75-15 TO YOU USE OSCILLOSCOPES TO PREVENE VIEW CORTS 130 75-15 TO YOU USE OSCILLOSCOPES TO PREVENE VIEW CORTS 131 75-15 TO YOU USE OSCILLOSCOPES TO PREVENE VIEW CORTS 132 75-15 TO YOU USE OSCILLOSCOPES TO PREVENE VIEW CORTS 134 75-15 TO YOU USE OSCILLOSCOPES TO PREVENE VIEW CORTS 135 75-15 TO YOU USE OSCILLOSCOPES TO PREVENE VIEW CORTS 136 75-15 TO YOU USE OSCILLOSCOPES TO PREVENE VIEW CORTS 137 75-15 TO YOU USE OSCILLOSCOPES TO PREVENE VIEW CORTS 138 75-15 TO YOU USE OSCILLOSCOPES TO PREVENE VIEW CORTS 139 75-15 TO YOU USE OSCILLOSCOPES TO PREVENE VIEW CORTS 130 100 100 100 100 100 100 100 100 100	133 75-12 10 0 YOU PRESTORM ANY TARKS ON STELKER VOICE COLLS 134 75-12 10 0 YOU PRESTORM ANY TARKS ON STELKER VOICE COLLS 135 75-12 10 0 YOU PRESTORM ANY TARKS ON STELKER VOICE COLLS 136 75-13 10 0 YOU PRESTORM ANY TARKS ON STELKER VOICE PRESAMENTS 137 75-14 10 0 YOU PRESTORM ANY TARKS ON STELKER LEGAMENTS 138 75-15 10 YOU PRESTORM ANY TARKS ON STELKER SETTINGM COMES 139 75-15 10 YOU PRESTORM ANY TARKS ON STELKER SETTINGM COMES 139 75-15 10 YOU URE OSCILLOSCORES IN THOU PRESMY JOHN COMES 139 75-15 10 YOU URE OSCILLOSCORES IN THOU PRESMY JOHN COMES 139 75-15 10 YOU USE OSCILLOSCORES IN THOU PRESMY JOHN COMES 139 75-15 10 YOU USE OSCILLOSCORES IN THE SHANDON COMES 139 75-15 10 YOU USE OSCILLOSCO	134 F2-10 OD YOU PERFORM ANY TASKS	SPEAKER	• ~	0	o of	. 4	9 0	9 0	0 0	0 0	0 0	0 0	0 0	
139 F=-12 DO TOU PERFORM ANY TASKS DW SPERKER PERFORMENT MARKETS 2 20 8 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	133 77-13 DO YOU PREVENER ANY TARKS ON STERKER PUREMENTS 2 2 0 6 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	117 F2-11 DO YOU PERFORM ANY TARK	SPEAKER FIELD COLL				a	2 0	0 0	9 0	0 0	0	0 0	0 0	
139 F2-13 DO TOU PERFORM ANY 138X ON SPERKER PERFORMANCE S. 2 20 8 8 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	139 F=15 00 TOU PERFORM ANY 15AS ON SPERKE REARRENTS AND TOUS AS TOUS OF THE TOUS AND THE TOUS A	THE PROPERTY AND PROPERTY AND PARTY TARKE	COLANGO		0 0	D 0		0 0	•	,	, :	, ,		0 0	
147 72-17 00 100 PERTORN ANY TARKS ON SPEAKER ELECTRONIGERS 2 20 8 8 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	140 F2-15 DO 1000 PERFORM ANY TABLES DN SPERKER ELECTHORAGETS 2 20 8 8 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	THE FOLLOW OF THE PROPERTY AND TAKEN	COLUMN COLUMN NACATE			0 6		2	0	3 0	0 0	0 0	0 0	0 0	
147 75-07 00 00 PERFORM ANY TARKS ON STRAKE SCHOOL INCOMES 147 75-01 00 00 UPERFORM ANY TARKS ON STRAKE SCHOOL INCOMES 147 75-02 00 00 UPERFORM ANY TARKS ON STRAKE SCHOOL INCOMES 147 75-02 00 00 UPERFORM ANY TARKS ON STRAKE SCHOOL INCOMES 147 75-02 00 00 UPERFORM ANY TARKS ON STRAKE SCHOOL INCOMES 147 75-02 00 00 UPERFORM ANY TARKS ON STRAKE SCHOOL INCOMES 147 75-02 00 00 UPERFORM ANY TARKS ON STRAKE SCHOOL INCOMES 148 75-02 00 00 UPERFORM ANY TARKS ON STRAKE SCHOOL INCOMES 148 75-02 00 00 UPERFORM ANY TARKS ON STRAKE SCHOOL INCOMES 148 75-03 00 00 UPERFORM ANY TARKS ON STRAKE SCHOOL INCOMES 148 75-03 00 00 UPERFORM ANY TARKS ON STRAKE SCHOOL INCOMES 148 75-03 00 00 UPERFORM ANY TARKS ON STRAKE SCHOOL INCOMES 148 75-03 00 00 UPERFORM ANY TARKS ON STRAKE SCHOOL INCOMES 148 75-03 00 00 UPERFORM ANY TARKS ON STRAKE SCHOOL INCOMES 148 75-03 00 00 UPERFORM ANY TARKS ON STRAKE SCHOOL INCOMES 148 75-03 00 00 UPERFORM ANY TARKS ON STRAKE SCHOOL INCOMES 148 75-03 00 00 UPERFORM ANY TARKS ON STRAKE SCHOOL INCOMES 148 75-03 00 00 UPERFORM ANY TARKS ON STRAKE SCHOOL INCOMES 148 75-03 00 00 UPERFORM ANY TARKS ON STRAKE SCHOOL INCOMES 148 75-03 00 00 UPERFORM ANY TARKS ON STRAKE SCHOOL INCOMES 148 75-03 00 00 UPERFORM ANY TARKS ON STRAKE SCHOOL INCOMES 148 75-03 00 00 UPERFORM ANY TARKS ON STRAKE SCHOOL INCOMES 148 75-03 00 00 UPERFORM ANY TARKS ON STRAKE SCHOOL INCOMES 148 75-03 00 00 UPERFORM ANY TARKS ON STRAKE SCHOOL INCOMES 159 00 00 00 00 00 00 00 00 00 00 00 00 00	141 72-15 00 700 PERFORM ANT TARKS ON SPEAKE LEGGES 2 2 0 8 8 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	0	TOTAL TENENT TOTAL	• (2 0	20 (•	0	3	0		0 0	0 0	o	
141 F2-15 DO TOU USE OSCILLOSCOPES IN TOUR PRESENT JOBAL CARES S. 20 8 8 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	344 73-15 DO TOU PERPENDA MAY TASKS ON SPERMEN SOFT TRONG CORES 349 73-15 DO TOU USE GOSTILLOSCOPES IN TOUR PRESENT JOB 349 73-15 DO TOU USE GOSTILLOSCOPES IN TOUR PRESENT JOB 349 73-15 DO TOU USE GOSTILLOSCOPES IN TOUR PRESENT JOB 349 73-15 DO TOU USE GOSTILLOSCOPES IN TROUBLESHOOT ELECTRONIC 65 80 100 100 100 100 100 100 77 76 60 70 00 100 100 100 100 100 100 100 100	340 FZ-14 DO 100 PERFORM ANY LASKS	SPEAKER ELECTHOMAGNETS	7	20	00	00	a	0	a	0	0	0	0	***************************************
1942 F3-01 DO TOU USE OSCILLOSCOPES IN TOUR PRESENT JOAR 1947 F3-02 DO TOU USE OSCILLOSCOPES IN TOUR PRESENT JOAR 1947 F3-02 DO TOU USE OSCILLOSCOPES IN TOUR PRESENT JOAR 1947 F3-02 DO TOU USE OSCILLOSCOPES IN TROUBLESHOOT ELECTRONIC	1947 F3-02 DO TOU USE OSCILLOSCOPES IN TOUR PRESENT JOB 1947 F3-02 DO TOU USE OSCILLOSCOPES IN TOUR PRESENT JOB 1947 F3-02 DO TOU USE OSCILLOSCOPES TO FRETORN DEFRATIONAL 1947 F3-03 DO TOU USE OSCILLOSCOPES TO FRETORN ALIGNRENTS OR 83 100 100 100 100 100 100 00 77 76 80 70 00 100 100 100 100 100 100 100 100	341 F2-15 DO YOU PERFURN ANY TASKS	SPEAKER SOFT IRON CORE	8	20	« 0	00	0	0	0	2	0	0	0	
144 F3-03 DO YOU USE OSCILLOSCOPES TO PERFORM ALIGNHENTS OR 63 100 100 100 100 100 100 100 100 100 10	144 73-012 DO YOU USE OSCILLOSCOPES TO PERFORM ALIGNMENTS OR 83 100 100 100 100 100 100 100 100 100 10	342 F3-01 DO YOU USE OSCILLOSCOPES	YOUR PRESENT	9.5	100	001	001	001	00	100	19	*	08	70	
44 F 3-02 DO YOU USE OSCILLOSCOPES TO PERFORM ALIGHMENTS OR 83 100 100 100 100 100 100 0 7 7 6 0 7 0 0 1 0 0	4 F 3-01 DO YOU USE OSCILLOSCOPES TO PERFORM ALIGNMENTS OR 63 100 100 100 100 100 100 05 5 67 70 70 70 70 100 100 100 100 100 100 10	343 F3-02 DO TOU USE OSCILLOSCOPES	PERFORM OPER	83	100	100	100	100	00	100		69	0.9	9 9	
347 53—04 00 YOU USE OSCILLOSCOPES TO TROUBLESHOOT ELECTRONIC 65 80 100 100 100 100 100 77 70 00 70 100 10	345 F3—04 DO TOU USE OSCILLOSCOPES TO RECURENCE REQUENCY 346 F3—04 DO TOU USE OSCILLOSCOPES TO RECURE REQUENCY 347 F3—05 DO TOU USE OSCILLOSCOPES TO REASURE FIREQUENCY 348 F3—05 DO TOU USE OSCILLOSCOPES TO REASURE FIREQUENCY 348 F3—05 DO TOU USE OSCILLOSCOPES TO REASURE FIREQUENCY 348 F3—05 DO TOU USE OSCILLOSCOPES TO REASURE FIREQUENCY 348 F3—05 DO TOU USE OSCILLOSCOPES TO REASURE FIREQUENCY 348 F3—05 DO TOU USE OSCILLOSCOPES TO REASURE FIREQUENCY 348 F3—05 DO TOU USE OSCILLOSCOPES TO REASURE FIREQUENCY 348 F3—05 DO TOU USE OSCILLOSCOPES TO REASURE FIREQUENCY 348 F3—05 DO TOU USE OSCILLOSCOPES TO REASURE FREQUENCY 350 F3—05 DO TOU USE OSCILLOSCOPES TO REASURE FREQUENCY 351 F3—10 DO TOU USE OSCILLOSCOPES TO REASURE DC VOLTAGE 352 F3—10 DO TOU USE OSCILLOSCOPES TO REASURE DC VOLTAGE 353 F3—10 DO TOU USE OSCILLOSCOPES TO REASURE DC VOLTAGE 354 F3—10 DO TOU USE OSCILLOSCOPES TO REASURE DC VOLTAGE 355 F3—10 DO TOU USE OSCILLOSCOPES TO REASURE DC VOLTAGE 356 F3—10 DO TOU USE OSCILLOSCOPES TO REASURE DC VOLTAGE 357 F3—10 DO TOU USE OSCILLOSCOPES TO REASURE DC VOLTAGE 358 F3—10 DO TOU USE OSCILLOSCOPES TO REASURE DC VOLTAGE 358 F3—10 DO TOU USE OSCILLOSCOPES TO REASURE DC VOLTAGE 358 F3—10 DO TOU USE OSCILLOSCOPES TO REASURE DC VOLTAGE 358 F3—10 DO TOU USE OSCILLOSCOPES TO REASURE DC VOLTAGE 358 F3—10 DO TOU USE OSCILLOSCOPES TO REASURE DC VOLTAGE 358 F3—10 DO TOU USE OSCILLOSCOPES TO REASURE DC VOLTAGE 358 F3—10 DO TOU USE OSCILLOSCOPES TO REASURE DC VOLTAGE 359 F3—10 DO TOU USE OSCILLOSCOPES TO REASURE DC VOLTAGE 350 F3—10 DO TOU USE OSCILLOSCOPES TO REASURE DC VOLTAGE 350 F3—10 DO TOU USE OSCILLOSCOPES TO REASURE DC VOLTAGE 350 F3—10 DO TOU USE OSCILLOSCOPES TO RESURE DE SAS NESISTANCE FOR THE TOTO TOU USE OSCILLOSCOPES TO TOU USE OSCILLOSCOPES 350 F3—10 DO TOU USE OSCILLOS	CHECKS	200000000000000000000000000000000000000									1.6	0		
145 F3-09 DO YOU USE OSCILLOSCOPES TO REABURE FREQUENCY 146 F3-05 DO YOU USE OSCILLOSCOPES TO MEABURE FREQUENCY 147 F3-05 DO YOU USE OSCILLOSCOPES TO MEABURE FREQUENCY 148 F3-05 DO YOU USE OSCILLOSCOPES TO MEABURE FREQUENCY 149 F3-05 DO YOU USE OSCILLOSCOPES TO MEABURE FREQUENCY 140 F3-05 DO YOU USE OSCILLOSCOPES TO MEABURE FREQUENCY 141 F3-05 DO YOU USE OSCILLOSCOPES TO MEABURE FREQUENCY OR TIME 140 F3-05 DO YOU USE OSCILLOSCOPES TO MEABURE AC VOLTAGE 151 F3-05 DO YOU USE OSCILLOSCOPES TO MEABURE AC VOLTAGE 152 F3-05 DO YOU USE OSCILLOSCOPES TO MEABURE AC VOLTAGE 153 F3-05 DO YOU USE OSCILLOSCOPES TO MEABURE AC VOLTAGE 154 F3-05 DO YOU USE OSCILLOSCOPES TO MEABURE AC VOLTAGE 155 F3-10 DO YOU USE OSCILLOSCOPES TO MEABURE AC VOLTAGE 156 F3-10 DO YOU USE OSCILLOSCOPES TO MEABURE AC VOLTAGE 157 F3-12 DO YOU USE OSCILLOSCOPES TO MEABURE AC VOLTAGE 158 F3-12 DO YOU USE OSCILLOSCOPES TO MEABURE AC VOLTAGE 158 F3-12 DO YOU USE OSCILLOSCOPES TO MEABURE AC VOLTAGE 158 F3-12 DO YOU USE OSCILLOSCOPES TO MEABURE AC VOLTAGE 158 F3-12 DO YOU WENDOW MANK WITH SEMICONDUCTOR DIODES IN YOUR PRESERT TO GO TOO TOO TOO TOO TOO TOO TOO TOO	145 F3-07 DO YOU USE OSCILLOSCOPES TO READURE FREQUENCY 146 F3-05 DO YOU USE OSCILLOSCOPES TO MEASURE FREQUENCY 147 F3-05 DO YOU USE OSCILLOSCOPES TO MEASURE FREQUENCY 148 F3-05 DO YOU USE OSCILLOSCOPES TO MEASURE FREQUENCY 149 F3-05 DO YOU USE OSCILLOSCOPES TO MEASURE FREQUENCY 140 F3-05 DO YOU USE OSCILLOSCOPES TO MEASURE FREQUENCY 141 F3-05 DO YOU USE OSCILLOSCOPES TO MEASURE FREQUENCY 145 F3-05 DO YOU USE OSCILLOSCOPES TO MEASURE FREQUENCY 146 F3-05 DO YOU USE OSCILLOSCOPES TO MEASURE FREQUENCY 151 F3-05 DO YOU USE OSCILLOSCOPES TO MEASURE FREQUENCY 151 F3-05 DO YOU USE OSCILLOSCOPES TO MEASURE FREQUENCY 152 F3-11 DO YOU USE OSCILLOSCOPES TO MEASURE FREQUENCY 153 F3-11 DO YOU USE OSCILLOSCOPES TO MEASURE FREQUENCY 154 F3-15 DO YOU USE OSCILLOSCOPES TO MEASURE FREQUENCY 155 F3-11 DO YOU USE OSCILLOSCOPES TO MEASURE FREQUENCY 155 F3-11 DO YOU USE OSCILLOSCOPES TO MEASURE FREQUENCY 155 F3-11 DO YOU USE OSCILLOSCOPES TO MEASURE FREQUENCY 155 F3-11 DO YOU USE OSCILLOSCOPES TO MEASURE FREQUENCY 155 F3-11 DO YOU USE OSCILLOSCOPES TO MEASURE FREQUENCY 155 F3-11 DO YOU USE OSCILLOSCOPES TO MEASURE FREQUENCY 155 F3-11 DO YOU USE OSCILLOSCOPES TO MEASURE FREQUENCY 155 F3-11 DO YOU USE OSCILLOSCOPES TO MEASURE FREQUENCY 155 F3-11 DO YOU USE OSCILLOSCOPES TO MEASURE FREQUENCY 155 F3-11 DO YOU USE OSCILLOSCOPES TO MEASURE FREQUENCY 155 F3-11 DO YOU USE OSCILLOSCOPES TO MEASURE FREQUENCY 155 F3-11 DO YOU USE OSCILLOSCOPES TO MEASURE FREQUENCY 155 F3-11 DO YOU USE OSCILLOSCOPES TO MEASURE FREQUENCY 155 F3-11 DO YOU USE OSCILLOSCOPES USING AN INSTRUMENT 155 F3-11 DO YOU USE OSCILLOSCOPES USING AN INSTRUMENT 155 F3-11 DO YOU USE OSCILLOSCOPES USING AN INSTRUMENT 155 F3-11 DO YOU USE OSCILLOSCOPES USING AN INSTRUMENT 155 F3-12 DO YOU USE OSCILLOSCOPES USING AN INSTRUMENT 155 F3-12 DO YOU USE OSCILLOSCOPES USING AN INSTRUMENT 155 F3-12 DO YOU USE OSCILLOSCOPES USING AN INSTRUMENT 155 F3-12 DO YOU USE OSCILLOSCOPES USING AN INSTRUMENT 155 F3-12 DO YOU USE OSCILLOSCOPES USING AN INSTRUMENT 155	ADJUSTNEMTS	THE SET OF SET O	0	2	0	2	0					0		SCITTOSCOPE
144 F3-05 DO TOU USE OSCILLOSCOPES TO REASURE FREQUENCY 145 F3-06 DO TOU USE OSCILLOSCOPES TO REASURE FREQUENCY 146 F3-05 DO TOU USE OSCILLOSCOPES TO REASURE FREQUENCY 147 F3-06 DO TOU USE OSCILLOSCOPES TO REASURE FIRE 148 F3-07 DO TOU USE OSCILLOSCOPES TO REASURE FIRE 148 F3-07 DO TOU USE OSCILLOSCOPES TO REASURE LISAJOUS PATTERNS 150 F3-09 DO TOU USE OSCILLOSCOPES TO REASURE ACCOUNTING 150 F3-09 DO TOU USE OSCILLOSCOPES TO REASURE ACCOUNTING 150 F3-09 DO TOU USE OSCILLOSCOPES TO REASURE ACCOUNTING 151 F3-10 DO TOU USE OSCILLOSCOPES TO REASURE ACCOUNTING 151 F3-10 DO TOU USE OSCILLOSCOPES TO REASURE ACCOUNTING 151 F3-10 DO TOU USE OSCILLOSCOPES TO REASURE ACCOUNTING 151 F3-10 DO TOU USE OSCILLOSCOPES TO REASURE ACCOUNTING 151 F3-10 DO TOU USE OSCILLOSCOPES TO REASURE ACCOUNTING 152 F3-11 DO TOU USE OSCILLOSCOPES TO REASURE ACCOUNTING 153 F3-12 DO TOU USE OSCILLOSCOPES TO REASURE ACCOUNTING 151 F3-12 DO TOU USE OSCILLOSCOPES TO REASURE ACCOUNTING 151 F3-12 DO TOU USE OSCILLOSCOPES TO REASURE ACCOUNTING 152 F3-12 DO TOU USE OSCILLOSCOPES TO REASURE ACCOUNTING 153 F3-12 DO TOU USE OSCILLOSCOPES TO REASURE ACCOUNTING 154 F3-12 DO TOU USE OSCILLOSCOPES TO REASURE ACCOUNTING 155 F3-12 DO TOU USE OSCILLOSCOPES TO REASURE ACCOUNTING 155 F3-12 DO TOU USE OSCILLOSCOPES TO REASURE ACCOUNTING 155 F3-12 DO TOU USE OSCILLOSCOPES TO REASURE ACCOUNTING 155 F3-12 DO TOU USE OSCILLOSCOPES TO REASURE ACCOUNTING 155 F3-12 DO TOU USE WERNER LEVEL DIAGRAMS IN TOUR WORK WITH B 20 25 25 25 0 0 0 0 0 0 0 0 0 0 0 0 0 0	CHRCUITS CHRCUI	345 F3-04 DO YOU USE OSCILLOSCOPES	TROUBLESHOOT	85	80	100	100	100	001	100		64	10	0	TO THE WOOD IN
134 F3-05 DO 700 USE OSCILLOSCOPES TO WEASURE FREQUENCY 134 F3-05 DO 700 USE OSCILLOSCOPES TO WEASURE FREQUENCY 135 F3-05 DO 700 USE OSCILLOSCOPES TO OBSERVE FIGHALS WHILE 136 F3-05 DO 700 USE OSCILLOSCOPES TO OBSERVE LISAJOUS PATTERNS 137 F3-05 DO 700 USE OSCILLOSCOPES TO OBSERVE LISAJOUS PATTERNS 138 F3-07 DO 700 USE OSCILLOSCOPES TO OBSERVE LISAJOUS PATTERNS 139 F3-09 DO 700 USE OSCILLOSCOPES TO OBSERVE FIREWENCY OR TIME 140 F3-09 DO 700 USE OSCILLOSCOPES TO MEASURE CO COLTAGE 151 F3-10 DO 700 USE OSCILLOSCOPES TO MEASURE CO COLTAGE 152 F3-11 DO 700 USE OSCILLOSCOPES TO MEASURE CO COLTAGE 153 F3-11 DO 700 USE OSCILLOSCOPES TO MEASURE CO COLTAGE 154 F3-12 DO 700 USE OSCILLOSCOPES TO MEASURE CO COLTAGE 155 F3-11 DO 700 USE OSCILLOSCOPES TO MEASURE CO COLTAGE 156 F3-12 DO 700 USE OSCILLOSCOPES TO MEASURE CO COLTAGE 157 F3-13 DO 700 USE OSCILLOSCOPES TO MEASURE CO COLTAGE 158 F3-14 DO 700 USE OSCILLOSCOPES TO MEASURE CO COLTAGE 158 F3-15 DO 700 USE OSCILLOSCOPES TO MEASURE CO COLTAGE 159 F3-15 DO 700 USE OSCILLOSCOPES TO MEASURE CO COLTAGE 150 F3-15 DO 700 USE OSCILLOSCOPES TO MEASURE CO COLTAGE 150 F3-15 DO 700 USE OSCILLOSCOPES TO MEASURE CO COLTAGE 150 F3-15 DO 700 USE OSCILLOSCOPES TO MEASURE CO COLTAGE 150 F3-15 DO 700 USE OSCILLOSCOPES TO MEASURE CO COLTAGE 150 F3-15 DO 700 USE OSCILLOSCOPES TO MEASURE CO COLTAGE 150 F3-15 DO 700 USE OSCILLOSCOPES TO MEASURE CO TOUR MORK WITH BE TO TOUR MORK WITH BE TO TOUR MORK WITH SELECTION TO TOUR COMPUTE FORMARD OR PROVENCE TO TOUR MORK WITH SELECTION TO TOUR COMPUTE FORMARD MORK WITH SELECTION TO TOUR TOUR TOUR TOUR TOUR TOUR TOUR T	149 F3-05 DOT 700 USE DSCILLOSCOPES TO MEASURE TIME 149 F3-05 DOT 700 USE DSCILLOSCOPES TO MEASURE TIME 149 F3-06 DOT 700 USE DSCILLOSCOPES TO MEASURE TIME 149 F3-06 DOT 700 USE DSCILLOSCOPES TO MEASURE TIME 149 F3-07 DOT 700 USE DSCILLOSCOPES TO MEASURE LISAAUUS MATTERNS 53 80 100 100 100 0 0 0 37 38 35 35 149 F3-07 DOT 700 USE DSCILLOSCOPES TO MEASURE SIGNALS WHILE TO TO 100 100 100 100 0 0 0 0 0 0 0 0 0 0 0	CIRCUITS													
149 F3-06 DO YOU USE OSCILLOSCOPES TO MESUNE LISAJON PATTERNS 53 80 100 100 100 100 100 100 100 100 100	347 F3—06 DO YOU USE OSCILLOSCOPES TO GESENELLISAJOUS PATTERNS 53 80 100 100 100 100 100 100 100 100 100	346 F3-05 DO YOU USE	MEASURE	19	00	25	85	100	00	100		69	55	19	
348 F3-07 D0 700 USE OSCILLOSCOPES TO OBSERVE LISAJOUS PATTERNS 53 80 100 100 0 0 0 0 37 38 35 38 39 198 F3-07 D0 700 USE OSCILLOSCOPES TO OBSERVE SIGNALS WHILE TO TOO 100 100 100 75 67 100 60 67 0 67 0 67 0 67 0 67 0 67 0	349 F3-07 DO YOU USE OSCILLOSCOPES TO GOSERVE LISAJOUS PATTERNS 53 80 100 100 75 67 100 60 64 90 64 100 110 110 110 110 110 110 110 110 11	347 F3-06 DO YOU USE	MEASURE TIME		001	100	100	001	00	100	4.7	20	0	*	
349 F3-U8 DO YOU USE OSCILLOSCOPES TO GBSERVE SIGNALS WHILE 77 100 100 100 75 67 100 60 69 90 61 100 101 101 101 101 101 101 101 101	349 F3-UB DO YOU USE OSCILLOSCOPES TO GBSERVE SIGNALS WHILE 77 100 100 100 75 67 100 60 49 40 61 101 1121/146 ATENUTOR PROBES 350 F3-UB DO YOU USE OSCILLOSCOPES TO MAKE FREQUENCY OR TIME 40 60 92 92 0 0 0 0 0 1 1 1 1 1 1 1 1 1 1 1 1 1 1	348 F3-07 DO YOU USE	DBSERVE LISAJOUS PATTER		80	100	100	0	0	0		38	35	35	
150 UTILIZING ATTENUATOR PROBES 150 UTILIZING ATTENUATOR PROBES 150 UTILIZING ATTENUATOR PROBES 151 F3-10 DO YOU USE OSCILLOSCOPES TO MEASURE AC VOLTAGE 152 F3-11 DO YOU USE OSCILLOSCOPES TO MEASURE AC VOLTAGE 152 F3-11 DO YOU USE OSCILLOSCOPES TO MEASURE AC VOLTAGE 152 F3-11 DO YOU USE OSCILLOSCOPES TO MEASURE AC VOLTAGE 152 F3-12 DO YOU USE OSCILLOSCOPES TO MEASURE AC VOLTAGE 153 F3-12 DO YOU USE OSCILLOSCOPES TO MEASURE DC YOLTAGE 154 MALE AFTEN FIRST ADJUSTING THE GAIN AND DC GAAL CONTROLS 154 MALE AFTEN FIRST ADJUSTING THE GAIN AND DC GAAL CONTROLS 154 MALE AFTEN FIRST ADJUSTING THE GAIN AND DC GAAL CONTROLS 155 F3-12 DO YOU UNSPECT DIODES 155 F3-12 DO YOU UNSPECT DIODES 155 F3-12 DO YOU UNSPECT DIODES 156 F3-12 DO YOU UNSPECT DIODES 157 F3-12 DO YOU UNSPECT DIODES 158 F3-12 DO YOU UNSPECT DIODES 159 F3-12 DO YOU UNSPECT DIODES 159 F3-12 DO YOU UNSPECT DIODES 150 F0	UTILIZING ATTENUATOR PROBES 350 F3-09 DO YOU USE OSCILLOSCOPES TO MAKE FREQUENCY OR TIME MALASURE KRATS USING DELLAY THE HULTIPLIERS 351 F3-10 DO YOU USE OSCILLOSCOPES TO MEASURE AC VOLTAGE 352 F3-11 DO YOU USE OSCILLOSCOPES TO MEASURE AC VOLTAGE 353 F3-12 DO YOU USE OSCILLOSCOPES TO MEASURE AC VOLTAGE 354 F3-11 DO YOU USE OSCILLOSCOPES TO MEASURE DR OBSERVE 355 F3-11 DO YOU USE OSCILLOSCOPES TO MEASURE DR OBSERVE 356 F3-12 DO YOU USE OSCILLOSCOPES TO MEASURE DR OBSERVE 357 F3-12 DO YOU USE OSCILLOSCOPES TO MEASURE DR VOLTAGE 358 F3-12 DO YOU WORK WITH SEMICONDUCTOR DIODES IN YOUR PRESENT 358 F3-12 DO YOU UNSPECT DIODES 356 F3-12 DO YOU UNSPECT DIODES 357 F3-12 DO YOU UNSPECT DIODES 358 F3-12 DO YOU UNSPECT DIODES 358 F3-12 DO YOU USE PREJAME AN INSTRUMENT 358 F3-12 DO YOU USE PREJAME AND MEASURE DIAS WOLTAGE, 358 F3-12 DO YOU USE PREJAME AND MEASURE BIAS YOUTAGE, 358 F3-12 DO YOU USE PREJAME AND MEASURE BIAS YOUTAGE, 358 F3-12 DO YOU USE PREJAME AND MEASURE BIAS YOUTAGE, 358 F3-12 DO YOU USE PREJAME AND MEASURE BIAS RESISTANCE FOR THE WOOLD SO WOLT BE FORWARD OR REVERSE BIAS RESISTANCE FOR THE WOLT BE FORWARD OR REVERSE BIAS RESISTANCE FOR THE WOLT BE FORWARD OR REVERSE BIAS RESISTANCE FOR THE WOLT BE FORWARD OR REVERSE BIAS RESISTANCE FOR THE WOLT BE FORWARD OR REVERSE BIAS RESISTANCE FOR THE WOLT BE FORWARD OR THE WOLT BE FORWARD BE FORWARD OR THE WOLT BE FORWARD BE FORWARD BE FO	349 F3-U8 DO YOU USE	DBSERVE SIGNALS		100	100	100	75	67	100			0.	-9	
350 F3-09 DO YOU USE OSCILLOSCOPES TO MAKE FREQUENCY OR TIME 40 60 92 92 0 0 0 0 0 1 1 1 2 5 35 35 41 4 4 5 5 5 5 5 5 5 5 5 5 5 5 5 5 5 5	351 F3-07 DO TOU USE OSCILLOSCOPES TO MAKE FREQUENCY OR TIME	UTILIZING ATTEN													
#EASURGREATS USING DELAY TINE WULTPLIERS #EASURGREATS USING DELAY TINE WULTPLIERS 35. F3-F10 DO TOU USE DOSCILLOSCOPES TO MEASURE AC VOLTAGE 35. F3-F10 DO TOU USE DOSCILLOSCOPES TO MEASURE AC VOLTAGE 35. F3-F10 DO TOU USE DOSCILLOSCOPES TO MEASURE DC VOLTAGE 35. F3-F10 DO TOU USE DOSCILLOSCOPES TO MEASURE DC VOLTAGE 35. F3-F10 DO TOU USE DOSCILLOSCOPES TO MEASURE DC VOLTAGE 35. F3-F10 DO TOU WORK WITH SEMICONDUCTOR DIODES IN YOUR PRESENT 26 80 100 100 75 67 100 56 57 55 57 55 57 55 57 50 50 50 50 50 50 50 50 50 50 50 50 50	#EASUBEMENTS USING DELAY TIME HULTIPLIERS 351 F3-10 00 700 USE 05CILLOSCOPES TO MEASURE AC VOLTAGE 352 F3-11 DO 700 USE 05CILLOSCOPES TO MEASURE AC VOLTAGE 353 F3-12 DO 700 USE 05CILLOSCOPES TO MEASURE AC VOLTAGE 354 F3-12 DO 700 USE 05CILLOSCOPES TO MEASURE DR VOLTAGE 355 F3-12 DO 700 USE 05CILLOSCOPES TO MEASURE DR VOLTAGE 356 F3-12 DO 700 USE 05CILLOSCOPES TO MEASURE DR VOLTAGE 357 F3-12 DO 700 USE 05CILLOSCOPES TO MEASURE DR VOLTAGE 358 F3-12 DO 700 USE 05CILLOSCOPES TO MEASURE DR VOLTAGE 358 F3-12 DO 700 USE 05CILLOSCOPES TO MEASURE DR VOLTAGE 358 F3-12 DO 700 USE 05CILLOSCOPES TO MEASURE DR VOLTAGE 358 F3-12 DO 700 USE 05CILLOSCOPES TO MEASURE DR VOLTAGE 358 F3-12 DO 700 USE 05CILLOSCOPES TO MEASURE DE VOLTAGE 358 F3-12 DO 700 USE 05CILLOSCOPES TO MEASURE DE VOLTAGE 358 F3-12 DO 700 USE 05CILLOSCOPES TO MEASURE DE VOLTAGE 359 F3-10 DO 700 USE 05CILLOSCOPES TO MEASURE DE MEASURE D	350 F3-09 DO YOU USE OSCILLOSCOPES	MAKE FREGUENCY OR	0	09	42		a	0	a		33	25	35	
351 F3-10 DO TOU USE OSCILLOSCOPES TO MEASURE AC VOLTAGE 352 F3-11 DO TOU USE OSCILLOSCOPES TO MEASURE AC VOLTAGE 353 F3-12 DO TOU USE OSCILLOSCOPES TO MEASURE OR OBSERVE 354 F3-12 DO TOU USE OSCILLOSCOPES TO MEASURE OR OBSERVE 355 F3-12 DO TOU WORK WITH SEMICONDUCTOR DIODES IN YOUR PRESENT 356 F3-12 DO TOU WORK WITH SEMICONDUCTOR DIODES IN YOUR PRESENT 357 F3-12 DO TOU WORK WITH SEMICONDUCTOR DIODES IN YOUR PRESENT 358 F3-12 DO TOU WORK WITH SEMICONDUCTOR DIODES IN YOUR PRESENT 358 F3-12 DO TOU WORK WITH SEMICONDUCTOR DIODES IN YOUR PRESENT 358 F3-12 DO TOU WORK WITH SEMICONDUCTOR DIODES 359 F3-12 DO TOU WORK WITH SEMICONDUCTOR DIODES 350 F3-12 DO TOU WORK WITH SEMICONDUCTOR DIODES 351 F3-12 DO TOU WORK WITH SEMICONDUCTOR DIODES 352 F3-12 DO TOU WORK WITH SEMICONDUCTOR DIODES 353 F3-12 DO TOU WORK WITH SEMICONDUCTOR DIODES 354 F3-12 DO TOU WORK WITH SEMICONDUCTOR DIODES 355 F3-12 DO TOU WORK WITH SEMICONDUCTOR DIODES 357 F3-12 DO TOU WORK WITH SEMICONDUCTOR DIODES 358 F3-12 DO TOU WO	351 F3-10 DO TOU USE DOSCILLOSCOPES TO MEASURE AC VOLTAGE 352 F3-11 DO TOU USE DOSCILLOSCOPES TO MEASURE AC VOLTAGE 354 F3-12 DO TOU USE DOSCILLOSCOPES TO MEASURE OR OSSERVE 355 F3-12 DO TOU USE DOSCILLOSCOPES TO MEASURE DC VOLTAGE 354 G1-01 DO TOU WORK WITH SEMICONDUCTOR DIODES IN YOUR PRESENT 354 G1-02 DO TOU USE DOSCILLOSCOPES TO MEASURE DC VOLTAGE 355 G1-02 DO TOU WORK WITH SEMICONDUCTOR DIODES IN YOUR PRESENT 356 G1-02 DO TOU WORK WITH SEMICONDUCTOR DIODES 357 G1-02 DO TOU WORK WITH SEMICONDUCTOR DIODES 358 G1-02 DO TOU WORK WITH SEMICONDUCTOR DIODES 358 G1-02 DO TOU WEEK DIODES 358 G1-03 DO TOU USE ENERGY LEVEL DIAGRAMS IN YOUR WORK WITH 359 G1-03 DO TOU USE ENERGY LEVEL DIAGRAMS IN YOUR WORK WITH B 20 25 25 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	MEASUREMENTS USING DELAY TINE	TIPLIERS									,			
35.2 F3-11 DO TOU USE OSCILLOSCOPES TO MEASURE OR GASERVE 35.3 F3-12 DO TOU USE OSCILLOSCOPES TO MEASURE DR GALL CONTROLS 35.3 F3-12 DO TOU USE OSCILLOSCOPES TO MEASURE DR VOLTAGE 35.4 F3-12 DO TOU WORK WITH SEMICONDUCTOR DIODES IN YOUR PRESENT 26 80 100 100 75 67 100 56 77 70 70 35.4 F3-12 DO TOU WORK WITH SEMICONDUCTOR DIODES IN YOUR PRESENT 26 80 100 100 75 67 100 56 75 55 52 35.5 F3-12 DO TOU WORK WITH SEMICONDUCTOR DIODES IN YOUR PRESENT 26 80 100 100 75 67 100 56 75 55 52 35.5 F3-12 DO TOU WORK WITH SEMICONDUCTOR DIODES 35.5 F3-12 DO TOU CHECK DIODES USING AN INSTRUMENT 35.5 F3-12 DO TOU USE PH JUNG AN INSTRUMENT 35.7 F3-12 DO TOU USE PH JUNG AN INSTRUMENT 35.8 F3-12 DO TOU USE PH JUNG AND PREVENSE BIAS YOUTAGE. 35.0 F3-12 DO TOU CHECK DIODES USING BIAS RESISTANCE FOR 9 40 50 50 50 47 0 11 10 15 13	35.2 F3-11 DO TOU USE COCILLOSCOPES TO MEASURE OR GOSERVE 35.3 F3-12 DO TOU USE COCILLOSCOPES TO MEASURE OR GOSERVE 35.4 F12 DO TOU WORK WITH SEMICONDUCTOR DIODES IN YOUR PRESENT 26 80 100 100 75 67 100 56 57 55 52 35.5 G1-01 DO TOU WORK WITH SEMICONDUCTOR DIODES IN YOUR PRESENT 26 80 100 100 75 67 100 56 57 55 52 35.5 G1-02 DO TOU WORK WITH SEMICONDUCTOR DIODES IN YOUR PRESENT 26 80 100 100 75 67 100 56 57 55 57 35.5 G1-03 DO TOU WORK WITH SEMICONDUCTOR DIODES IN YOUR PRESENT 26 80 100 100 75 67 100 56 55 39 35.5 G1-03 DO TOU WERNOVE OR REPLACE DIODES USING AN INSTRUMENT 25 60 100 100 75 67 100 53 52 55 39 35.5 G1-03 DO TOU USE ENERGY LEVEL DIAGRAMS IN YOUR WORK WITH 8 20 75 25 0 0 0 3 2 5 0 35.5 G1-03 DO TOU USE PN JUNCTION DIODE CHARACTERISTIC CURVES, 6 60 33 33 0 0 0 6 10 5 9 35.5 G1-03 DO TOU USE PN JUNCTION DIODE CHARACTERISTIC CURVES, 6 60 33 33 0 0 0 6 10 5 9 35.5 G1-03 DO TOU USE PN JUNCTION DIODE CHARACTERISTIC CURVES, 6 60 33 33 0 0 0 0 6 10 5 9 35.5 G1-03 DO TOU USE PN JUNCTION DIODE CHARACTERISTIC CURVES, 6 60 33 33 0 0 0 0 6 10 5 9 35.5 G1-03 DO TOU USE PN JUNCTION DIODE CHARACTERISTIC CURVES, 6 60 33 33 0 0 0 0 6 10 5 9 35.5 G1-03 DO TOU USE PN JUNCTION DIODE CHARACTERISTIC CURVES, 6 60 33 33 0 0 0 0 6 10 15 13 13 0 0 0 0 0 10 15 13 13 0 0 0 0 0 0 10 15 13 13 10 0 0 0 0 0 10 15 13 13 10 0 0 0 0 0 10 15 13 13 10 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	351 73-10 00	MEASURE AC	9.7	000	85	26	0	C	001	7.1		15		
353 F3-12 Do 700 USE OSCILLOSCOPES ID MEASURE DC VOLTAGE 354 G1-01 DO 700 WORK WITH SEMICONDUCTOR DIODES IN YOUR PRESENT 26 80 100 100 75 67 100 56 57 55 52 355 G1-02 DO YOU INSPECT DIODES 355 G1-02 DO YOU INSPECT DIODES 355 G1-03 DO YOU USE CHERGY LEVEL DIAGRAMS IN YOUR WORK WITH 8 20 25 67 00 0 0 3 2 5 5 5 5 5 5 5 5 5 5 5 5 5 5 5 5 5 5	355 F3-F2 DO TOU USE CSCIELEDSCOPES TO NEASURE DC VOLTAGE 354 G1-01 DO YOU WORK WITH SEMICOMDUCTOR DIODES IN YOUR PRESENT 26 80 100 100 75 67 100 56 57 55 52 355 G1-02 DO YOU INSPECT DIODES 355 G1-02 DO YOU INSPECT DIODES 355 G1-03 DO YOU INSPECT DIODES 355 G1-03 DO YOU WERNOVE OR RECLACE DIODES 357 G1-03 DO YOU WERNOVE OR RECLACE DIODES 357 G1-03 DO YOU USE ENERGY EAVE DIAGRAMS IN YOUR WORK WITH 8 20 75 67 100 53 52 55 57 358 G1-03 DO YOU USE ENERGY EAVE DIAGRAMS IN YOUR WORK WITH 8 20 75 25 0 0 0 3 2 5 0 357 G1-03 DO YOU USE PN JUNCTION DIODE CHARACTERISTIC CURVES, 6 60 33 33 0 0 0 6 10 5 9 357 G1-03 DO YOU USE PN JUNCTION DIODE CHARACTERISTIC CURVES, 6 60 33 33 0 0 0 6 10 5 9 350 G1-03 DO YOU USE PN JUNCTION DIODE CHARACTERISTIC CURVES, 6 60 33 33 0 0 0 6 10 5 9 350 G1-03 DO YOU COMPUTE FORMARD OR REVERSE BIAS RESISTANCE FOR 9 40 50 50 67 0 11 10 15 13	352 F3-11 DO	MEASURE OR O	*	001	100	001	20	67	0	63		20		
354 GL-01 00 YOU WORK WITH SEMICONDUCTOR DIODES IN YOUR PRESENT 26 80 100 100 75 67 100 56 87 55 52 36 36 36 36 36 36 36 36 36 36 36 36 36	359 41-01 00 700 WORK WITH SEMICONDUCTOR DIODES IN YOUR PRESENT 24 80 100 100 75 67 100 50 88 55 82 JOB 55 81-02 00 YOU INSPECT DIODES 1N YOUR PRESENT 24 80 100 100 75 67 100 50 88 55 88 85 81-02 00 YOU WERNE OR REPLACE DIODES 1N YOUR WORK WITH 8 20 100 100 75 67 100 53 52 55 52 55 52 55 80 100 100 75 67 100 53 52 55 52 50 0 0 0 0 0 0 0 0 0 0 0 0 0 0	353 F3-12 Do	MEASURE DC V		100	100	100	100	00	100		7.4	7.0	70	
355 61-02 DO YOU INSPECT DIODES 355 61-02 DO YOU INSPECT DIODES 356 61-03 DO YOU REMOVE OR RELACE DIODES 357 61-03 DO YOU REMOVE OR RELACE DIODES 358 61-03 DO YOU CHECK DIODES USING AN INSTRUMENT 358 61-03 DO YOU USE ENERGY LEVEL DIAGRAMS IN YOUR WORK WITH 358 61-03 DO YOU USE ENERGY LEVEL DIAGRAMS IN YOUR WORK WITH 358 61-03 DO YOU USE PROJUCTION DIODE CHARACTERISTIC CURVES, 359 61-03 DO YOU USE PROJUCTION DIODE CHARACTERISTIC CURVES, 350 61-03 DO YOU USE PROJUCTER LIAS RESISTANCE FOR 9 40 SO SO 47 DO 11 10 15 13	355 61-02 DO YOU INSPECT DIODES 356 61-02 DO YOU INSPECT DIODES 356 61-02 DO YOU INSPECT DIODES 356 61-03 DO YOU UNSPECT DIODES 357 61-09 DO YOU CHECK DIODES USING AN INSTRUMENT 358 61-03 DO YOU UNE ENERGY LEVEL DIAGRAMS IN YOUR WORK WITH 358 61-05 DO YOU UNE ENERGY LEVEL DIAGRAMS IN YOUR WORK WITH 359 61-05 DO YOU UNE PH JUNGTION DIODE CHARACTERISTIC CURVES, 359 61-05 DO YOU UNE PH JUNGTION DIODE CHARACTERISTIC CURVES, 360 61-05 DO YOU UNE PH JUNGTION DIODE CHARACTERISTIC CURVES, 360 61-05 DO YOU COMPUTE FORWARD OR REVERSE BIAS YOUTAGE, TOGETHER WITH YALUZE OF FORWARD OR REVERSE BIAS RESISTANCE FOR 9 40 50 50 67 0 11 10 15 13 DIODES	354 61.01 00	TOR DIDDES IN YOUR	26	80	100	100	75	4.7	100		57	88	6.2	
255 61-02 DO YOU INDEED	255 61-02 DO YOU INSPECT DIODES 15.6 61-02 DO YOU INSPECT DIODES 15.6 61-02 DO YOU REMOVE OR REPLACE DIODES 15.6 61-03 DO YOU CHECK DIODES USING AN INSTRUMENT 15.7 61-09 DO YOU CHECK DIODES USING AN INSTRUMENT 15.8 61-05 DO YOU CHECK DIODES USING AN INSTRUMENT 15.8 61-05 DO YOU USE ENERGY LEVEL DIAGRAMS IN YOUR WORK WITH 15.9 61-05 DO YOU USE PH JUNGTION DIODE CHARACTERISTIC CURVES, 6 6D 33 33 0 0 0 0 6 10 5 9 15.9 61-05 DO YOU USE PH JUNGTION DIODE CHARACTERISTIC CURVES, 6 6D 33 33 0 0 0 0 6 10 5 9 15.0 61-07 DO YOU COMPUTE FORWARD OR REVERSE BIAS RESISTANCE FOR 9 90 50 50 67 0 11 10 15 13 DIODES	308													SEMICONDUCT
15.6 GI=03 DG YOU NEMOVE OR REPLACE DIODES 15.6 GI=03 DG YOU CHECK DIODES USING AN INSTRUMENT 15.7 GI=09 DG YOU CHECK DIODES USING AN INSTRUMENT 15.6 GI=09 DG YOU USE ENERGY LEVEL DIAGRAMS IN YOUR WORK WITH 15.9 GI=08 DG YOU USE PR UNCTION DIODE CHARACTERISTIC CURVES, 15.9 GI=08 DG YOU USE PR UNCTION DIODE CHARACTERISTIC CURVES, 15.0 GI=08 DG YOU USE FRANCE FE FORMARD AND REVERSE BIAS YOUTAGE. 16.0 DG YOU COMPUTE FORWARD OR REVERSE BIAS RESISTANCE FOR 9 40 50 50 67 DG II IO IS II	15.6 61-03 DO YOU NEMOVE OR REPLACE DIODES 35.6 61-03 DO YOU CHECK DIODES USING AN INSTRUMENT 35.7 61-09 DO YOU USE ENERGY LEVEL DIAGRAMS IN YOUR WORK WITH 35.61-05 DO YOU USE ENERGY LEVEL DIAGRAMS IN YOUR WORK WITH 35.7 61-05 DO YOU USE PM JUNCTION DIODE CHARACTERISTIC CURVES, 35.7 61-05 DO YOU USE PM JUNCTION DIODE CHARACTERISTIC CURVES, 36.1 06 DO YOU USE PM JUNCTION DIODE CHARACTERISTIC CURVES, 36.2 07 07 07 07 07 07 07 07 07 07 07 07 07	355 61-02 00 YOU		23	09	100	100	75	67	100		m 4	55	4	DIODES
357 61-09 DO YOU CHECK DIODES USING AN INSTRUMENT 358 61-05 DO YOU USE ENERGY LEVEL DIAGRAMS IN YOUR WORK WITH 8 20 25 25 0 0 0 3 2 5 5 5 5 5 5 5 5 5 5 5 5 5 5 5 5 5 5	357 61-0" DO YOU CHECK DIDDES USING AM INSTRUMENT 358 61-05 DO YOU USE ENERGY LEVEL DIAGRAMS IN YOUR WORK WITH 8 20 75 25 0 0 0 3 2 5 5 61-05 DO YOU USE EN JUMETION DIDDE CHARACTERISTIC CURVES, 6 60 33 33 0 0 0 6 10 5 70 617R WITH YALUES OF FORMARD AND REVERSE BIAS YOLTAGE, 1350 61-07 DO YOU COMPUTE FORMARD OR REVERSE BIAS RESISTANCE FOR 9 40 50 50 57 0 11 10 15 1 DIODES	354 61-03 DO YOU		17	0	100	100	75	67	100		45	55	39	
358 41-05 DO TOU USE ENERGY LEVEL DIAGRAMS IN YOUR WORK WITH 8 20 25 25 0 0 0 3 2 5 5 5 0 0 0 3 2 5 5 0 0 0 0 3 2 5 5 0 0 0 0 0 3 3 3 3 0 0 0 0 0 0 0 0 0	358 41-05 DO 70U USE ENERGY LEVEL DIAGRAMS IN YOUR WORK WITH 8 20 25 25 0 0 0 3 2 5 5 5 0 0 0 0 3 2 5 5 0 0 0 0 0 3 2 5 5 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	357 61-04 DO YOU	AN INSTRUMENT	25	90	100	100	75	6.7	100		25	5.5	52	
DIODES 159 GITCH DO TOU USE PM JUNCTION DIODE CHARACTERISTIC CURVES, 6 60 33 33 0 0 0 6 10 5 TOGETHER PRINARD OR REVERSE LIAS MESISTANCE TO COMPUTE FORMARD OR REVERSE LIAS MESISTANCE FOR 9 40 50 50 47 0 11 10 15 1	DIODES JSP 41-06 DO TOU USE PM JUNCTION DIODE CHARACTERISTIC CURVES, 6 60 33 33 0 0 0 6 10 5 TOGETHER WITH VALUES OF FORMARD AND REVERSE BIAS YOLTAGE, TO COMPUTE FORWARD OR REVERSE LIAS RESISTANCE FOR 9 40 50 50 67 0 11 10 15 1 DIODES	358 61-05 DO YOU	RAMS IN YOUR MORK WIT	60	20	25	25	0	0	0		2	'n	0	
159 61-06 DO TOU USE PM JUMCTION DIODE CHARACTERISTIC CURVES, 6 60 33 33 0 0 0 6 10 5 TOGETHER WITH VALUES OF FORMARD AND REVERSE BIAS VOLTAGE, TO COMPUTE FORMARD OR REVERSE LIAS RESISTANCE 350 51-07 DO TOU COMPUTE FORMARD OR REVERSE 81AS RESISTANCE FOR 9 40 50 50 50 47 0 11 10 15 1	159 GI-05 DO TOU USE PM JUNCTION DIDDE CHARACTERISTIC CURVES, 6 6D 33 33 0 0 0 6 10 5 TOGETHER WITH VALUES OF FORMARD AND REVERSE BIAS VOLTAGE, TO COMPUTE FORMARD OR REVERSE LIAS RESISTANCE FOR 9 40 50 50 67 0 11 10 15 1 DIODES							,		,					
TO COMPUTE FORMARD OR REVERSE LIAS RESISTANCE FOR 9 40 50 50 67 0 11 10 1	TO COMPUTE FORMARD OR REVERSE LIAS RESISTANCE FOR 9 40 50 50 67 0 11 10 1 DIODES	359 6	CHARACTERISTIC	0	90			c	0	0	œ	10	s.	•	
350 51-07 DO TOU COMPUTE FORWARD OR REVERSE BIAS RESISTANCE FOR 9 40 50 50 50 67 0 11 10 1	350 51-07 DO TOU COMPUTE FORMARD OR REVERSE BIAS RESISTANCE FOR 9 40 50 50 50 67 0 11 10 1 DIODES	TO COMPUTE FORMARD OR REVERSE L	S RESISTANCE												
	DIODES	3 096	VERSE BIAS RESISTANCE	6	90		20	20	6.7	0	=	10	5	13	

PCT NBRS RESPONDING OYES' BY SELECTED GRPS

GPSM4B PAGE 14

- C	TASK GROUP SURTARY OFFICERING												
1													7
	DY-TSK	SPC 8-90	SPC	3 P C	SPC 067	SPC 069	SPC	SPC D71	5PC 072	SPC 073	5 PC	5PC 075	
6 361	GI-DB DO YOU USE OF REFER TO THE	0-	9	100	100	25	33	a	3.0	36	0	22	
6 362	CALLOD ON TOU LORENITY SEMICENCE TOR DIDDES AS DEPOSED TO DOTTED THAT OF SEMICENCE TO DESCRIPTION OF DIDDES AS DEPOSED TO	23	0	100	001	75	67	100	*	3.8	5.5	35	
	THEIR PHYSICAL APPEARANCE												
6 363		*	90	1.7	1.7	0	0	0	0	ro.	20	0	
6 364	9	•	09	7.5	15	20	33	100	31	7.6	0.	1.1	3
345	GI-12 DO YOU	ag	20	75	75	75	17	100	6	•	3.0	22	
3	61-13 DO YOU USE OR REFER TO CENTRIFUGAL	2	0	0	00	a	0	, a	. ~	2	0	*	
3	ORBIT ARGUND A NUCLEUS USE OR REFER TO CENTRIPETAL FORCE OF	•	0 %	30	99	0	O	0	м	'n	0	,	
6 368	ELECTROM IN ORBIT AROUND A NUCLEUS GI-15 DO YOU USE OR REFER TO DIDDE NUMBERING SYSTE	5	20	100	100	75	67	00!	37	31	5.0	26	
	AS IN 536 61-16 DO YOU USE OR REFER TO KINETIC EMERSY O	2	40	83	80	c	0		~	2	c	c	
	MOVING IN DRBIT	~	0	100	00		0	c	~	~	0	. 0	
	ELECTRON MOVING IN ORBIT GI-18 DO YOU USE ON REFER TO ME.SUREJENTS OF REVE	S	0.9	26	42	50	33	100	32	26	20	17	36
2 177	RESISTANCE	•	9	a	o(c	c		^	,	c	c	
	PARTICULAR SHELL OR ORBIT	d				0							
9	AN ORBITING ELECTRON	•	2	z)	0	0	9	a	7	4	2	2	
6 37	374 GI-21 DO YOU USE OR REFER TO FORBIDDEN ENEMGY LEVELS OF AN	*	9	60	#0	0	0	0	~	2	0	0	
6 375	9	*	90	40	90	a	0	o	2	2	0	0	
6 37	A TOMIC N	*	20	60	40	0	0	a	~	2	0	0	
	ELECTRONS IN ATOM	1.7	0.0	9.2	9.5	75	67	100	53	50	0 %	.3	2
	INDICATE THE CATHODE END	~	0.4	1.7	1.7	2 E	o		Œ	9	4	,	
	CONSTRUCTION OF DIODES SUCH AS SERMANIUM OR SILICON	0	80	0	20	2	13	000	2.0	2.6		1.7	
	TEMPERATURE COEFFICIENTS OF RESIS					,							
9 38	0	0	20	33	3.3	25	3.3	0		3.5	01	•	
	CHARACTERISTIC CURVES, SUCH AS VOLTAGE - CURNENT												
	R OPERATI												
38.	9	4	09	m m	63	20	33	100	8.5	e S	10 10 10 10 10 10 10 10 10 10 10 10 10 1	3.5	24
0.0	VALENCE BAND	2	9.0	1.7	1,	c	0	c	10		10		
	MATERIALS					2		>					

TRANSISTORS SPC 075 0 0 0 0 0 0 0 0 0 13 5 PC 00 SPC 073 00 -5PC 072 00 9 4 4 5 37 5PC 071 0 0 a d a dod a a a a 100 a 100 100 100 100 00000 5pc 070 0 0 0 33 0 6.7 0 0 SPC 15 0 0 0 0 0 a a 25 a a a 15 0 75 25 0 a 52 75 GPSH46 PAGE 5 PC 52 00000 25 17 7 33 17 2.8 17 75 4 5 33 33 09 100 SPC 066 17 52 13 75 33 1 7 58 17 75 4 2 33 33 90 100 000000 5 PC 40 0 0 4 04 09 9 40 9 9 9 40 9 0 0 0 20 20 20 20 20 20 000 09 SPC 0 0 0 0 0 0 0 0 0 61-48 DO YOU USE OR REFER TO PEAK RECURRENT FORWARD CURRENT #03 61-50 DO YOU USE OR REFER TO PEAK REVERSE (INVERSE) VOLTAGE DO YOU USE OR REFER TO ELECTRON FLOW OR HOLE FLOW IN MATERIAL MATERIAL CHECK TRANSISTORS USING AN INSTRUMENT
USE OR REFER TO ENITER - BASE (EB) FORMARD
RESISTANCE RESOURCEMENTS
RESISTANCE MEASUREMENTS Z II-43 DO YOU USE OR REFER TO RELATIONSHIP BETWEEN BARRIER WIDTH AND DIFFERENCE OF POTENTIAL DIODE RATINGS GI-49 DO TOU USE OR REFER TO MAXIMUM SURSE CURRENT DIODE DO YOU USE OR REFER TO ELECTRON-HOLE PAIR CREATED TOU MORK MITH TRANSISTORS IN YOUR PRESENT JOB. Z 400 GI-47 DO YOU USE OR REFER TO MAXIMUM AVERAGE FORWARD CURRENT DIODE RATINGS 11-41 DD YOU USE OF REFER TO JUNCTION RECONSINATION SEMICONDUCTORS GI-44 DO YOU USE OR REFER TO THE 10:1 BACK TO FRONT RESISTANCE RATIO FOR DIDDES REFER TO P-TYPE SEMICONDUCTOR REFER TO M-TYPE SEMICONDUCTOR REFER TO MAJORITY CARRIERS IN DO YOU USE OR REFER TO ACCEPTOR IMPURITY IN DO YOU USE ON REFER TO MINORITY CARRIERS IN 11-31 DO YOU USE OR REFER TO CONDUCTION BAND IN SEMICONDUCTOR MATERIALS
11-32 DO YOU USE OR REFER TO COVALENT BONDING IN SEMICONDUCTOR MATERIALS DO YOU USE OR REFER TO DEPLETION REGION IN 399 GI-46 DO YOU USE OR REFER TO DIODE SUBSTITUTION REFER TO FORBIDDEN BAND IN 1-35 DO YOU USE OR REFER TO DONOR INPURITY IN 398 61-45 DO YOU USE OR REFER TO BARRIER HEIGHT IN REMOVE OR REPLACE TRANSISTORS PCT MBNS RESPONDING . YES. BY SELECTED GRPS DY-TSK SEMICONDUCTOR MATERIALS PERCENT MEMBERS PERFORMING 0 0 0 00 YOU USE DO YOU USE DO YOU USE SEMICONDUCTORS SEMICONDUCTORS SEMICONDUCTORS SEMICONDUCTORS SEMICONDUCTORS SENICONDUCTORS SEMICONDUCTORS GZ-01 DO TOU AND REVERSE 62-04 DO YOU AND REVERSE INFORMATION RATIMES 62-04 00 383 61-30 61-33 387 61-34 393 61-40 396 61-43 61-35 62-02 61-39 61-42 63-05 65-03 TASK 388 394 395 386 389 404 397 385 390 392 104 402 909 404 391

3

RANSISTOR AMPLIFIERS 56 1. 11 56 4 25 22 -04 075 ~ 2 22 20 52 20 55 0 35 0 2000 0 245 33 3.8 5 6 ~ 52 7 7 200000 0 0 0 0 N 2 40 SPC 072 37 3 6 23 0 27 53 2 9 3 30 9077 0 5 PC 001 a a 0 000 a 00 0 a acacado 0 000000 200 ø 6.7 0 33 0 100 33 a 33 000000 33 0 5 PC a 0 25 a 25 gododda 52 0 PSH4B PAGE SPC 100 42 000 067 33 7.5 50 28 63 43 100 75 50 00 8 33 2.5 33 2 6 990 90 80 80 09 0 80 90 0 20 0 40 0000000 0000000 20 SPC 00 17 0 * N 18 0 0 0 1 2 2 2 -2-15 DO YOU USE OR RETER TO THE GENERAL RULE THAT THE TRANSISTOR BASE CURRENT IB IS HORMALLY SIGNIFICANTLY SMALLER THAN THE EMITTER CURRENT IC, LUSUALLY 18 BEING 2 TO THE CONTROLLING FACTOR FOR × YOU USE THE GENERAL RULE THAT LEAKAGE CURRENT IN A TRANSISTOR INCREASES AS TEMPERATURE INCREASES G3-07 DO YOU USE ON REFER TO ICOMMUNICATIONS ANGE IN CALCULATIONS NECESSARY TO MEASURE THE SPECIFIC CHANGE IN COLLECTOR CURRENT HICH RESULTS FROM A SPECIFIC CHANGE IN SYMBOLS 4 TO REMOVE OR REPLACE THE COMPLETE AMPLIFIER

OU PENOVE OR REPLACE AMPLIFIER COMPONENTS

OU USE OR REFER TO (COMMON ENITER) THE CHANGE

CURRENT MHICH RESULTS FROM A CHANGE IN BASE JUNCTION NOTATION SUCH AS YOU INSPECT TRANSISTOR AMPLIFIERS
YOU ALIGN ON ADJUST TRANSISTOR AMPLIFIERS
YOU TROUBLESHEDT TO THE AMPLIFIER CINCUIT LEVEL
YOU TROUBLESHOOT TO AMPLIFIER COMPONENTS RESISTANCE MEASUREMENTS
62-08 DO YOU USE ON REFER TO HOW BIASING AFFECTS THE PHYSICAL BARRIER WIDTH OF THE ENTITER - BARBE JUNCTION 12-09 DO YOU USE OR REFER TO HOW BIASING AFFECTS THE PHYSICAL BARRIER WIDTH OF THE COLLECTOR - BASE JUNCTION 12-10 DO YOU USE OR REFER TO THE PHYSICAL SIZE OF THE TRANSISTOR STRUCTURE (COLLECTOR, BASE AND EMITTER) 12-11 DO YOU USE OR REFER TO LEARAGE CURRENT (100) IN OR REFER TO TRANSISTOR CHARACTERISTIC U USE OR REFER TO EMITTER - COLLECTOR (EC) USE OR REFER TO BEIN TRANSISTOR GAINS
USE OR REFER TO ALPHA TRANSISTOR GAINS
USE OR REFER TO GAHMA TRANSISTOR GAINS
CALCULATE BETN TRANSISTOR GAINS
CALCULATE ALPHA TRANSISTOR GAINS
CALCULATE GAMMA TRANSISTOR GAINS
WORK WITH TRANSISTOR GAINS TO TRANSISTOR SUBSTITUTION REFER TO TRANSISTOR SCHEMATIC SELECTED GRPS USE THE INFORMATION ON BASE CURRENT IS OR REFER F 6 PERCENT MEMBERS PERFORMING 800 PYES USE ETC USE USE DO YOU USE MBAS RESPONDING PERCENT OF 200 YOU 400 1000 400 INFORMATION (1C80) IN A 100 62-15 DO YOU TRANSISTOR TRANSISTORS TRANSISTOR COLLECTOR 00 PRESENT 00 Do 000000 00 00 00 62-19 62-07 65-09 62-14 62-17 63-04 62-18 63-02 63-07 62-23 63-01 43-08 62-24 410 * 1 * 417 418 419 420 415 421 44444 422 436 PC1

H

2

d

=

PCT MBRS RESPONDING .YES. BY SELECTED GRPS

GPSH4B PAGE 17

TASK GROUP SUNNARY

	DY-T5K	SPC 064	290	200	SPC 047	5 PC	5 PC	5°C	272	SPC 073	074	SPC 075	
437	63-10 DO YOU USE OK REFER TO (COMMON EMITTER) THE CHANGE IN COLLECTOR VOLTAGE WHICH RESULTS FROM A CHANGE IN BASE CURRENT	٠	20	45	20	0	o	a	•	12	25		
438	G3-11 DO YOU USE OR REFER TO (COMMON ENITTER) THE CALCULATIONS NECESSARY TO MEASURE THE SPECIFIC CHANGE IN COLLECTOR VOLTAGE WHICH RESULTS FROM A SPECIFIC CHANGE IN	•	20	42	4.2	0	0	0	Δ.	v	s	•	
439	GA-SE CURRENT USE OR REFER TO (COMMON ENITTER) THE CHANGE IN BASE CURRENT WHICH RESULTS FROM AN IMPUT SIGNAL	*	9	20	20	0	0	0	- 3	13	15		
	E M	N 0	0,7	33	2 .	0	0 0	0	æ ^	· 0	5 0		
	GAS-14 DO TOU USE THE LOAD-LINE METHOD OF ANALYSIS IN TOUR CIRCUIT ANALYSIS (THIS METHOD REQUIRES YOU TO PLOT A LOAD-LINE ON A TRANSITOR CHARACTERISTIC CURVE) CAS-15 DO YOU HER OF DEFEND TO THE CONFESTING POINT D	9 6	3		• 3	a 6	0 0	a 6	• -	• •	0 0		
4 3	UIESCENT FOI	0 0	9	52	\$ \$2	0	0	0	, ,	'n	0		
	YOU MEASURE VOLTAGE GAIN USED IN THE	2	09	3	83	32	0	100	4	,	30		
4 4 0 0	613-18 DO YOU MEASURE CURRENT GAIN USED IN THE COMMON ENTITER CONTIGURATION OF SAIN USED IN THE COMMON	=	0 0	20 05	20 05	0 0	0	0 0	- *	, ,	50		
*	ENITTER CONFIGURATION 63-20 DO YOU CALCULATE THE YOLTAGE GAIN FOR SPECIFIC TRAN- 51STORS USING A FORMULA THAT 15, DO YOU DIVIDE THE CHANGE. 11 BASE_EMITTER YOLTAGE INTO THE CHANGE THE BASE COLLECTOR YOUTAGE TO DETERMINE THE YOUTAGE GAIN	0	0	25	52	٥	0	0	٠	~	1.5		
		0	0	33	66	0	0	0	•	~	5		
* * * * * * * * * * * * * * * * * * * *	63-22 DO YOU CALCULATE THE POWER GAIN FOR A SPECIFIC TRANSISTOR USING A FORMULA THAT 15, DO YOU MULTIPLY THE POWER GAIN TO DETERNINE THE POWER GAIN	0	0	13	1.7	0	0	0	•	0	5	o	
\$ 50		o	20	33	33	0	0	o	A	w	4	0	
155	PUTE THE STATIC OPERATING POINT IFFERENT TEMPERATURES NITY ON SCHEMATIC DIAGRAMS AND	0 %	40	- %	5.	0 0	0 0	0 0	2 2	0 ~	~ ~	0 •	
453	ASSOCIATED ATTOM AGRAMS AND ASSOCIATED	~	0 *	80	9.0	O	0	э	5	2	20		

PCT MBRS RESPONDING TEST BY SELECTED GRPS

GPSH48 PAGE 18

TASK GROUP SUMMARY
PERCENT MEMBERS PERFORMING

		SPC	2 6 6	2		U		U				275	
	DY-TSK	690	990		290		010	_	072 0	73		75	
10	G3-27 DO YOU IDENTIFY ON SCHEMATIC DIAGRAMS AND	0	9	50	20	0	0	a	9	17	5	#	
	THE ACTUAL CIRCUITRY THE COMPONENTS ASSOCIATED THERMISTOR STABLIZATION												
10.00		5	0	5.8	30	0	0	C	9 !	•	20		
	THE ACTUAL CIRCUITRY THE COMPONENTS ASSOCIATED WITH												
	FORWARD BIAS DIODE STABILIZATION												
454	63-29 DO YOU IDENTIFY ON SCHEMATIC DIAGRAMS AND	7	0	5.8	5.8	a	0	a	9	*	20	*	
	THE ACTUAL CIRCUITRY THE COMPONENTS ASSOCIATED												
457	63-30 DO TOU IDENTIFY ON SCHEMATIC	7	20	*2	42	0	o	0	13	7.	15	•	
	THE ACTUAL CIRCUITRY THE COMPONENTS ASSOCIATED WITH												
6 458	63-31 DO YOU TROUBLESHOOT CIRCUITS	•	40	67	67	25	0	00	•	*	20	•	
	MAICH PERFORM EXITIER (SHAMPING) RESISTOR STA												
454	63-32 DO TOU TROUBLESHOOT CIRCUIT	0	40	58	28	25	0	00	•	•	20	•	
	WHICH PERFORM SELF-BIAS STABILIZATION									1			
400	63-33 DO YOU TROUBLESHOOT CIRCULT	•	0	42	45	o	0	a	5	•	15	•	-
	MILLIANDER THE KAISTON STABILIZATION						(:			
•		•	0	29	2.0	0	0	0	>	11	52		
1	WHICH PERFORM FORWARD BIAS DIODE STABILIZATION				:					:		•	
705	מייים	•	2	28	20	a	9	a	•		67		
6 463	63-36 DO YOU TROUBLESHOOT CIRCUITS	•	20	5	42	c	0	c	15	•	5	•	
	WHICH PERFORM DOUBLE DIODE STARILIZATION												
	3	•	80	75	7.5	0	0	0	13	2	30	0	
	CIRCUITS		:										
465	9	13	90	20	83	25	0	00	-	7 1	35		
-	CAUSES OF AMPLITUDE DISTORTION				;				;		,		
0 0	9	13	0	13	2	57	0	000	5	,	30		-
679	CIRCUITS CONTRACTOR AND AND TRANSPORTED	:	40	75	36	c	c	c		0	00		
		:	3			2		2					
A 4 8	CARALL DO YOU TROUBLE CHOOL TRANSPORTED CONTINUES TO FIND THE	-	0	75	16	c	a	c	10	5	20		
)						>							
6 9 8	G	ac	90	15	75	25	0	00	5	1	30	0	
	CAUSES OF PREQUENCY DISTORTION		-										
470	ra.	2	0 1	33	33	0	0	0		7	s		
	CIRCUIT CAUSED BY CHANGING EMITTER RESISTANCE FOR												
	TRANSISTOR AMPLIFIERS IN THE COMMON COLLECTOR												
471	20.	2	09	50	20	o	2	0	13	10	20	0	
	AMPLIFIER												
972	S3-45 DO 700 TROUBLESHOOT OR REPAIR PARAPHASE AMPLIFI	1.5			5.8	25	0	001	•	12	52		
973	63-46 DO YOU TROUBLESHOOT OF REPAIR PUSH-PULL AMPLIF	23	90	45	25	25	0	00	23	17	35		
474	63-47 DO YOU TROUBLESHOOT OR REPAIR COMPLEMENTARY SYMMETRY	•	20		5.8	0	0	a	9 -	*	20	*	
	CIRCUITS			0	0		c		4		3.6		
	TO SEE SEE SEE SEE SEE SEE SEE SEE SEE SE							C	0	,		,	

PCT MBRS RESPONDING .YES. BY SELECTED GRPS

SPSH4B PAGE 19

\$ 95 C 57 C	DERCENT MEMBERS PERFORMING												
The color of the	3 6 6 6 6 6 6 6 6 6 6 6 6 6 6 6 6 6 6 6	SPC	SPC	SPC	SPC	SPC	200	SPC	SPC	27.5	SPC	SPC	
The part of the	VFT3K	60	000		100	100	2/0	5	7/0	2		0	
12. 1 10. 10 10.	476 63-49 DO YOU TROUBLESHOOT OR REPAIR	٥	0	67	67	25	0	100	21		30	•	
13 H1-02 DO TOU UE, OF REFER TO FILED FREEZET TANASTERONS FEET 1 6 6 75 75 75 0 0 0 0 0 1 1 10 0 0 1 10 10 10 10 10 1	477 HI-OI DO YOU USE OR REFER TO VARACT	*	0.6	5.8	5.8	0	0	c	=	0	1.5	•	
10 10 10 10 10 10 10 10	478 HI-02 DO YOU USE OR REFER	٥	9	75	75	0	0	0	٠	0	0	•	SOLID-STATE
10 10 10 10 10 10 10 10	479 HI-D3 DO YOU USE OR REFER TO FIELD EFFECT TRANSISTORS IF	_	0	75	15	0	0	0	34	*	30	56	SPECIAL PURPOSE
### ### ### ### ### ### ### ### ### ##	480 HI-D4 DO YOU USE OR REFER TO UNIJUNCTION TRANSISTORS		0.9	92	92	20	33	100	32	36	3.8	30	DEVICES
10 10 10 10 10 10 10 10	481 HI-05 DO YOU USE OR REFER	57	0.8	100	100	75	67	100	9 2	79	7.0	*	
### 12-02 10 TOU HYSTERT POWER SUPPLIES ### 12-02 00 TOU HYSTERT POWER SUPPLIES ### 12-02 00 TOU HYSTERT POWER SUPPLIES ### 12-03 00 TOU HYSTERT POWER SUPPLI	482 HI-06 DO YOU USE OR REFER TO INTEGRATED CIRCUITS	30	100	100	100	75	67	100	-9	0.4	9.2	œ *	
100 100	483 HZ-01 IN YOUR PRESENT JOB, DO YOU WORK WITH POWER	99	00	62	4.5	100	001	100	8	=	9.5	83	
1	48* H2-62 DO YOU INSPECT POWER SUPPLIES	0.4	09	100	100	100	100	100	1.4	6 4	8 5	83	
**************************************	485 HZ-03 DO YOU CLEAN POWER SUPPLIES	11	20	100	100	100	100	100	12	38	80	30	
### 12-05 DO TON TROUBLESHOOT TO POLER SUPPLY COMPONENTS ### 12-05 DO TON TROUBLESHOOT TO POLER SUPPLY COMPONENTS ### 12-05 DO TON TROUBLESHOOT TO POLER SUPPLY COMPONENTS ### 12-05 DO TON TROUBLESHOOT TO POLER SUPPLY COMPONENTS ### 12-05 DO TON TROUBLESHOOT TO POLER SUPPLY COMPONENTS ### 12-05 DO TON TROUBLESHOOT TO POLER SUPPLY COMPONENTS ### 12-05 DO TON TROUBLESHOOT TO POLER SUPPLY COMPONENTS ### 12-05 DO TON TROUBLESHOOT TO POLER SUPPLY COMPONENTS ### 12-05 DO TON TROUBLESHOOT TO POLER SUPPLY COMPONENTS ### 12-05 DO TON TROUBLESHOOT TO POLER SUPPLY COMPONENTS ### 12-05 DO TON TROUBLESHOOT TO POLER SUPPLY COMPONENTS ### 12-05 DO TON TROUBLESHOOT TO POLER SUPPLY COMPONENTS ### 12-05 DO TON TON WORK WITH ### 12-05 RECEIPTERS ### 12-05 DO TON TON WORK WITH ### 12-05 RECEIPTERS ### 12-05 DO TON TON WORK WITH ### 12-05 RECEIPTERS ### 12-05 DO TON TON WORK WITH ### 12-05 RECEIPTERS ### 12-05 DO TON TON WORK WITH ### 12-05 RECEIPTERS ### 12-05 DO TON USE ON REFER TO PRAKE WITH WOLF OF THE TOTAL WOLF OF THE TO	486 H2-04 DO YOU ALIGN OR ADJUST POWER SUP	32	90	100	100	100	100	100	7.	;	85	83	
## 80 TOO TOO TOO MEGNET OF REPLY COMPONENTS ## 90 100 100 100 61 60 65 61 77 74 74 74 74 74 74 74 74 74 74 74 74	487 HZ-05 DO YOU TROUBLESHOOT TO POMER SUPPLY	55	0	100	100	75	67	100	9	0.9	0	7.0	
### 12-70 DO YOU KHOVE OR REPLACE FOUNDER SUPPLY COMPONENTS 21 0 100 100 100 100 54 57 60 65 74 100	488 HZ-06 DO YOU TROUBLESHOOT TO POWER SUPPLY COM	40	0.0	100	100	100	100	100	79	•	9	-	
### 18-00 TOU WORK WITH HALE-WAYE RECIFIERS ### 18-00 TOU WORK WITH HALE-WAYE REPLOY LAPACITIVE ### 18-00 TOU WORK WITH HALE-WAYE WORK WITH HALE-WA	489 HZ-07 DO YOU REHOVE OR REPLACE COMPLETE PONER	**	•	100	100	100	100	100	74	7.6	70	87	
No. 1	490 HZ-08 DO YOU REMOVE OR REPLACE POWER SUPPLY C	21	20	100	100	100	100	100	5.8	57	9.0	9	
## ## ## ## ## ## ## ## ## ## ## ## ##	491 H2-09 DO YOU WORK MITH HALF-WAVE RECTIFIERS	6	90	100	100	20	33	100	55	6.2	9	25	and the second second second second
### NET CATE FOR THE FORT OF T	492 HZ-10 DO YOU WORK WITH FULL-WAVE RECTIFIERS OTHER TH	21	80	100	100	20	33	100	26	•	0	57	
449 HZ-11 DO YOU WORK WITH THREE-PHASE RECTFFIERS 49 HZ-12 DO YOU WORK WITH THREE-PHASE RECTFFIERS 495 HZ-12 DO YOU WORK WITH THREE-PHASE RECTFFIERS 496 HZ-13 DO YOU WORK WITH THREE-PHASE RECTFFIERS 496 HZ-13 DO YOU WORK WITH THREE-PHASE RECTFFIERS 497 HZ-15 DO YOU WORK WITH CIRCUITS WHICH EMPLOY CAPACITIVE 590 HZ-18 DO YOU WORK WITH CIRCUITS WHICH EMPLOY LAPACITIVE 590 HZ-22 DO YOU WORK WITH CIRCUITS WHICH EMPLOY CAPACITIVE 590 HZ-23 DO YOU WORK WITH CIRCUITS WHICH EMPLOY CAPACITIVE 590 HZ-24 DO YOU WORK WITH CIRCUITS WHICH EMPLOY CAPACITIVE 590 HZ-24 DO YOU WORK WITH CIRCUITS WHICH EMPLOY CAPACITIVE 590 HZ-25 DO YOU WORK WITH CIRCUITS WHICH EMPLOY CAPACITIVE 590 HZ-24 DO YOU WORK WITH CIRCUITS WHICH EMPLOY CAPACITIVE 590 HZ-24 DO YOU WORK WITH CIRCUITS WHICH EMPLOY CAPACITIVE 590 HZ-24 DO YOU WORK WITH CIRCUITS WHICH EMPLOY CAPACITIVE 590 HZ-25 DO YOU WORK WITH CIRCUITS WHICH EMPLOY CAPACITIVE 590 HZ-25 DO YOU WORK WITH CIRCUITS WHICH EMPLOY CAPACITIVE 590 HZ-25 DO YOU WORK WITH CIRCUITS WHICH EMPLOY CAPACITIVE 590 HZ-25 DO YOU WORK WITH CIRCUITS WHICH EMPLOY CAPACITIVE 590 HZ-25 DO YOU WORK WITH CIRCUITS WHICH EMPLOY CAPACITIVE 590 HZ-25 DO YOU WORK WITH CIRCUITS WHICH EMPLOY CAPACITIVE 590 HZ-25 DO YOU WORK WITH CIRCUITS WHICH EMPLOY CAPACITIVE 590 HZ-25 DO YOU WORK WITH CIRCUITS WHICH EMPLOY CAPACITIVE 590 HZ-25 DO YOU WORK WITH CIRCUITS WHICH EMPLOY DOWN TO YOU WORK WITH CIRCUITS WHICH EMPLOY WORK WITH CIRCUITS WHICH E	GE RECTIFIERS												
499 42-12 DO 700 WORK WITH THREE-MASE RECEIFERS 496 42-13 DO 700 WORK WITH THREE-MASE RECEIFERS 496 42-13 DO 700 WORK WITH THREE-MASE RECEIFERS 496 42-13 DO 700 USE ON REFER TO IMPUT VELLAGE 496 42-13 DO 700 USE ON REFER TO IMPUT VELLAGE 497 42-13 DO 700 USE ON REFER TO AVESAGE OUTPUT VOLLAGE 498 42-14 DO 700 USE ON REFER TO AVESAGE OUTPUT VOLLAGE 499 42-14 DO 700 USE ON REFER TO AVESAGE OUTPUT VOLLAGE 499 42-14 DO 700 USE ON REFER TO REAL RECEIVE CHARGED RECEIVED TO 700 USE ON REFER TO REAL RECEIVED TO 700 USE ON REFER TO REFER TO REAL RECEIVED TO 700 USE ON RELIEVE TO 7	493 HZ-11 DO YOU MORK WITH BRIDGE RECTIFIERS	6	0	100	00	75	67	100	2	42	4.5	•	•
495 HZ-113 DO TOU USE ON REFER TO INPUT FORTUNES. 496 HZ-114 DO TOU USE ON REFER TO INPUT FORTUNES. 497 HZ-115 DO TOU USE ON REFER TO PEAK TOUTHUT FORTUNES. 498 HZ-115 DO TOU USE ON REFER TO PEAK TOUTHUT FOUT AGE 499 HZ-115 DO TOU USE ON REFER TO PEAK TOUTHUT FOUT AGE 499 HZ-117 DO TOU USE ON REFER TO REPER TO REPURE TO	494 HZ-12 DO YOU MORK WITH THREE-PHASE RECTIFIE	23	9	92	42	50	33	100	25	9	*	-	
### ### ### ### ### ### ### ### ### ##	495 H2-13 DO YOU USE OR REFER TO IMPUT	0		100	100	75	19	100	•		9	-	
449 #22-5 DG 700 USE OR REFER TO PERFER TO PER	496 H2-14 DO TOU USE OR REFER TO INPUT	28	0	100	100	75	6.	100	53	25	20		Annual and company of the company of the
499 HZ-10 DG YOU USE ON REFER TO AVERAGE OUTPUT VOLTAGE 499 HZ-10 DG YOU USE ON REFER TO AVERAGE OUTPUT VOLTAGE 500 HZ-10 DG YOU USE ON REFER TO AVERAGE OUTPUT VOLTAGE 500 HZ-10 DG YOU USE ON REFER TO FARK REVERSE (INVERSE) VOLTAGE 501 HZ-10 DG YOU USE ON REFER TO FARK REVERSE (INVERSE) VOLTAGE 502 HZ-20 DG YOU USE ON REFER TO FARK REVERSE (INVERSE) VOLTAGE 503 HZ-21 DG YOU USE ON REFER TO FARK REVERSE (INVERSE) VOLTAGE 504 HZ-22 DG YOU USE ON REFER TO EFFECTIVE OUTPUT VOLTAGE 507 HZ-22 DG YOU USE ON REFER TO EFFECTIVE OUTPUT VOLTAGE 508 HZ-22 DG YOU USE ON REFER TO EFFECTIVE OUTPUT VOLTAGE 509 HZ-22 DG YOU USE ON REFER TO EFFECTIVE OUTPUT VOLTAGE 509 HZ-22 DG YOU USE ON REFER TO EFFECTIVE OUTPUT VOLTAGE 509 HZ-22 DG YOU USE ON REFER TO EFFECTIVE OUTPUT VOLTAGE 509 HZ-22 DG YOU USE ON REFER TO EFFECTIVE OUTPUT VOLTAGE 509 HZ-22 DG YOU USE ON REFER TO EFFECTIVE OUTPUT VOLTAGE 509 HZ-22 DG YOU USE ON REFER TO EFFECTIVE OUTPUT VOLTAGE 509 HZ-22 DG YOU USE ON REFER TO EFFECTIVE OUTPUT VOLTAGE 509 HZ-22 DG YOU USE ON REFER TO EFFECTIVE OUTPUT VOLTAGE 509 HZ-22 DG YOU USE ON REFER TO EFFECTIVE OUTPUT VOLTAGE 509 HZ-22 DG YOU USE ON REFER TO EFFECTIVE OUTPUT VOLTAGE 509 HZ-22 DG YOU USE ON REFER TO EFFECTIVE OUTPUT VOLTAGE 509 HZ-22 DG YOU USE ON REFER TO EFFECTIVE OUTPUT YOUR TO THE TOTAGE TO THE	447 HZ-15 DO YOU USE OR REFER TO PEAK OU'	90	80	26	9.5	75	67	100	25	21	0	43	
499 H2-17 DG YOU USE OR REFER TO RIPPLE AMPLITUDE 501 H2-19 DG YOU USE OR REFER TO RIPPLE FREQUENCY 501 H2-19 DG YOU USE OR REFER TO RIPPLE FREQUENCY 501 H2-19 DG YOU USE OR REFER TO RIPPLE FREQUENCY 502 H2-20 DG YOU USE OR REFER TO FAK REVERSE (HAVERSE) VOLTAGE 502 H2-20 DG YOU USE OR REFER TO FREAT REVERSE (HAVERSE) VOLTAGE 503 H2-20 DG YOU USE OR REFER TO FREAT REVERSE (HAVERSE) VOLTAGE 504 H2-20 DG YOU USE OR REFER TO FREAT REVERSE (HAVERSE) VOLTAGE 505 H2-20 DG YOU WORK WITH CIRCUITS WHICH EMPLOY CAPACITIVE 506 H2-20 DG YOU WORK WITH CIRCUITS WHICH EMPLOY CAPACITIVE 506 H2-20 DG YOU WORK WITH CIRCUITS WHICH EMPLOY CAPACITIVE 507 H2-20 DG YOU WORK WITH CIRCUITS WHICH EMPLOY CAPACITIVE 508 H2-20 DG YOU WORK WITH CIRCUITS WHICH EMPLOY LOTTIVE 508 H2-20 DG YOU WORK WITH CIRCUITS WHICH EMPLOY LOTTIVE 508 H2-20 DG YOU WORK WITH CIRCUITS WHICH EMPLOY LOTTIVE 509 H2-20 DG YOU WORK WITH CIRCUITS WHICH EMPLOY LOTTIVE 500 H2-20 DG YOU WORK WITH CIRCUITS WHICH EMPLOY LOTTIVE 500 H2-20 DG YOU WORK WITH CIRCUITS WHICH EMPLOY RC PI-TYPE 500 H2-20 DG YOU WORK WITH CIRCUITS WHICH EMPLOY RC PI-TYPE 500 H2-20 DG YOU WORK WITH CIRCUITS WHICH EMPLOY DOWNT 500 H2-20 DG YOU WORK WITH CIRCUITS WHICH EMPLOY RC PI-TYPE 500 H2-20 DG YOU WORK WITH CIRCUITS WHICH EMPLOY RC PI-TYPE 500 H2-20 DG YOU WORK WITH CIRCUITS WHICH EMPLOY RC PI-TYPE 500 H2-20 DG YOU WORK WITH CIRCUITS WHICH EMPLOY RC PI-TYPE 500 H2-20 DG YOU WORK WITH CIRCUITS WHICH EMPLOY RC PI-TYPE 500 H2-20 DG YOU WORK WITH CIRCUITS WHICH EMPLOY RC PI-TYPE 500 H2-20 DG YOU WORK WITH CIRCUITS WHICH EMPLOY RC PI-TYPE 500 H2-20 DG YOU WORK WITH CIRCUITS WHICH EMPLOY RC PI-TYPE 500 H2-20 DG YOU WORK WITH CIRCUITS WHICH EMPLOY RC PI-TYPE 500 H2-20 DG YOU WORK WITH CIRCUITS WHICH EMPLOY RC PI-TYPE 500 H2-20 DG YOU WORK WITH CIRCUITS WHICH EMPLOY RC PI-TYPE 500 H2-20 DG YOU WORK WITH CIRCUITS WHICH EMPLOY RC PI-TYPE 500 H2-20 DG YOU WORK WITH CIRCUITS WHICH EMPLOY RC PI-TYPE 500 H2-20 DG YOU WORK WITH CIRCUITS WHICH EMPLOY RC PI-TYPE 510 H2-10 DG YOU WORK WITH CIRCUITS WHICH EMPLOY	498 HZ-16 DG YOU USE OR REFER TO AVERAGE	34	80	83	2	75	67	100	90	•	20	•	
SOUNT SOUN	499 H2-17 DG YOU USE ON REFER TO RIP	52	9	92	92	75	67	100	26	57	55	3	
501 H2-19 DO YOU USE OR REFER TO PEAK REVERSE (INVERSE) VOLTAGE 17 60 67 25 33 0 26 31 15 26 502 H2-21 DO YOU USE OR REFER TO SERVENT OF CUTPUT WAVERANS 18 60 100 100 100 100 100 100 100 100 100	SOO MZ-18 DO YOU USE OR REFER TO RIPPLE FREQUENCY		9	100	100	20	33	100	0	0	0	35	
H2-20 DO YOU USE OR REFER TO SHARE OF OUTPUT WAVEFORMS 36 80 100 100 75 67 100 56 40 50 48 H2-21 DO YOU USE OR REFER TO SHARE OF OUTPUT VOLTAGE 21 60 92 92 25 33 0 0 49 46 50 39 14-22 DO YOU USE OR REFER TO EFFECTIVE OUTPUT VOLTAGE 21 60 92 92 25 33 0 0 49 49 50 39 14-22 DO YOU WORK WITH CIRCUITS WHICH EMPLOY INQUCTIVE 21 60 93 83 75 67 100 45 46 40 43 14-22 DO YOU WORK WITH CIRCUITS WHICH EMPLOY INDUCTIVE 19 40 56 58 75 67 100 39 40 35 30 10-22 DO YOU WORK WITH CIRCUITS WHICH EMPLOY INDUCTIVE 19 40 67 67 50 33 100 39 40 35 30 10-22 DO YOU WORK WITH CIRCUITS WHICH EMPLOY INDUCTIVE 19 40 67 67 50 33 100 39 40 35 26 11-22 DO YOU WORK WITH CIRCUITS WHICH EMPLOY INDUCTIVE 9 40 50 50 25 0 100 35 30 30 26 11-22 DO YOU WORK WITH CIRCUITS WHICH EMPLOY RCPI-TYPE 9 40 50 50 25 0 100 35 30 30 26 11-22 DO YOU WORK WITH CIRCUITS WHICH EMPLOY DON'T 25 20 50 50 25 0 100 35 30 30 26 11-22 DO YOU WORK WITH CIRCUITS WHICH EMPLOY DON'T 25 20 50 25 33 30 30 25 20 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	SOI HZ-19 DO YOU USE OR REFER TO PEAK REVERSE (INVERSE) VOLT		09	67	67	25	33	0	26	-	15	3.6	
H2-21 DO YOU USE OR REFRR TO EFFECTIVE OUTPUT VOLTAGE 12.6 60 92 92 75 56 100 97 98 50 39 H2-23 DO YOU WORK WITH CIRCUITS WHICH EMPLOY CAPACITIVE 12.6 60 92 92 75 67 100 97 98 45 93 H2-23 DO YOU WORK WITH CIRCUITS WHICH EMPLOY CAPACITIVE 13.6 92 92 75 67 100 97 98 45 93 H2-23 DO YOU WORK WITH CIRCUITS WHICH EMPLOY CAPACITIVE 14.6 92 92 75 67 100 97 98 95 93 30 H2-23 DO YOU WORK WITH CIRCUITS WHICH EMPLOY CAPACITIVE 15.6 10 0 37 90 35 30 H2-25 DO YOU WORK WITH CIRCUITS WHICH EMPLOY CAPACITIVE 16.6 10 0 50 50 50 33 100 37 90 35 30 H2-25 DO YOU WORK WITH CIRCUITS WHICH EMPLOY C PI-TYPE 17.6 10 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	502 H2-20 DO YOU USE OR REFER TO SHAPE OF OUTPUT	36	80	001	100	75	67	100	2.0	0.9	20	8	
# # # # # # # # # # # # # # # # # # #	SO 3 MZ-21 DO YOU USE OR REFER TO EFFECTIVE OUTPU	28	9	26	9.2	25	33	0	00		20	34	
FILTERS HZ-24 DO YOU WORK WITH CIRCUITS WHICH EMPLOY INGUCTIVE 19 40 58 58 75 67 100 45 46 40 43 HZ-25 DO YOU WORK WITH CIRCUITS WHICH EMPLOY CAPACITIVE 19 40 67 67 50 33 100 39 40 35 30 HZ-26 DO YOU WORK WITH CIRCUITS WHICH EMPLOY INDUCTIVE 19 40 67 67 50 33 100 39 40 35 30 HZ-26 DO YOU WORK WITH CIRCUITS WHICH EMPLOY RC PI-TYPE 9 40 50 50 25 0 100 35 38 30 26 HZ-26 DO YOU WORK WITH CIRCUITS WHICH EMPLOY RC PI-TYPE 9 40 50 50 25 0 100 35 38 30 26 HZ-26 DO YOU WORK WITH CIRCUITS WHICH EMPLOY RC PI-TYPE 9 40 50 50 25 0 100 35 38 30 26 HZ-28 DO YOU WORK WITH CIRCUITS WHICH EMPLOY RC PI-TYPE 9 40 50 50 25 0 100 35 38 30 26 HZ-28 DO YOU WORK WITH CIRCUITS WHICH EMPLOY RC PI-TYPE 9 40 50 50 25 0 100 35 38 30 26 HZ-28 DO YOU WORK WITH CIRCUITS WHICH EMPLOY RC PI-TYPE 0F 40 50 50 25 0 100 35 38 30 26 25 26 HZ-28 DO YOU WORK WITH CIRCUITS WHICH EMPLOY RC PI-TYPE 0F 40 50 50 25 0 100 35 38 30 26 25 26 HZ-28 DO YOU WORK WITH CIRCUITS WHICH EMPLOY RC PI-TYPE 0F 40 50 33 33 30 26 25 26 HZ-28 DO YOU WORK WITH CIRCUITS WHICH EMPLOY RC PI-TYPE 0F 40 50 33 33 30 26 25 26 HZ-28 DO YOU WORK WITH CIRCUITS WHICH EMPLOY RC PI-TYPE 0F 40 50 33 33 30 26 25 20 0 00 00 00 00 00 00 00 00 00 00 00 0	SOM M2-22 DG YOU WORK WITH CIRCUITS WHICH EMPLOY C	21	09	26	26	75	67	100	47		4 5	*	
NET	FILTERS	;					•		1	;			•
HZ-24 DO TOU WORK WITH CIRCUITS WHICH EMPLOY CAPACITIVE 19 40 58 58 75 67 100 39 40 35 30 IMPUT L-TYPE FILTERS HZ-25 DO TOU WORK WITH CIRCUITS WHICH EMPLOY INDUCTIVE 19 40 67 67 50 33 100 39 40 35 30 HZ-26 DO TOU WORK WITH CIRCUITS WHICH EMPLOY LC PI-TYPE 9 40 50 25 0 100 35 38 30 26 HZ-26 DO TOU WORK WITH CIRCUITS WHICH EMPLOY RC PI-TYPE 9 40 50 50 25 0 100 35 38 30 26 HZ-28 DO TOU WORK WITH CIRCUITS WHICH EMPLOY DON'T 25 20 58 58 25 33 D 35 35 43 HZ-28 DO TOU WORK WITH CIRCUITS WHICH EMPLOY DON'T 25 20 58 58 25 33 D 35 35 43 HZ-28 DO TOU WAYE THE OPTIGNE TYPE OF TITER HZ-28 DO TOU WAYE THE OPTIGNE TYPE OF TITER HZ-29 DO TOU WAYE THE OPTIGNE TYPE OF TITER HZ-29 DO TOU WAYE THE OPTIGNE TYPE OF TITER HZ-29 DO TOU WORK WITH OFFIGURES IN TOUR PRESENT JOB 26 25 33 B3 50 25 22	SUSTREES TO TOO TOOK WITH CINCUITS W	17	0	6	2			on!	0		7		
IMPUT L-TTPE FILTERS H2-25 DO TOU WORK WITH CIRCUITS WHICH EMPLOY IMDUCTIVE H2-25 DO TOU WORK WITH CIRCUITS WHICH EMPLOY LOPI-TYPE FILTERS H2-26 DO TOU WORK WITH CIRCUITS WHICH EMPLOY LOPI-TYPE FILTERS H2-27 DO TOU WORK WITH CIRCUITS WHICH EMPLOY BON*T FILTERS H2-28 DO TOU WORK WITH CIRCUITS WHICH EMPLOY BON*T FILTERS H2-28 DO TOU WORK WITH CIRCUITS WHICH EMPLOY BON*T FILTERS H2-28 DO TOU WORK WITH CIRCUITS WHICH EMPLOY BON*T FILTERS H2-28 DO TOU WORK WITH CIRCUITS WHICH EMPLOY BON*T FILTERS H2-29 DO TOU WORK WITH CIRCUITS WHICH EMPLOY BON*T FILTERS H3-30 DO TOU WORK WITH CIRCUITS WHICH EMPLOY BON*T FILTERS H3-01 DO TOU WORK WITH CIRCUITS WHICH CIRCUITS WHICH CAN BON*T FILTERS H3-01 DO TOU WORK WITH CIRCUITS WHICH CAN BON*T H3-01 DO	506 HZ-24 DO YOU MORK WITH CIRCUITS WHICH EMPLOY	61		5.8	5.8	75	47	100	3.0	0.	35	30	
HZ-25 DO YOU WORK WITH CIRCUITS WHICH EMPLOY INDUCTIVE 19 40 67 67 50 33 100 39 40 35 30 IMPUT L-TTPE FILTERS HZ-26 DO YOU WORK WITH CIRCUITS WHICH EMPLOY LC PI-TYPE 9 40 50 25 0 100 34 38 25 26 HZ-26 DO YOU WORK WITH CIRCUITS WHICH EMPLOY DON'T 25 20 58 58 25 33 0 35 36 35 43 FILTERS HZ-28 DO YOU WORK WITH CIRCUITS WHICH EMPLOY DON'T 25 20 58 58 25 33 0 35 36 35 43 HZ-28 DO YOU WORK WITH CIRCUITS WHICH EMPLOY DON'T 25 20 58 58 25 33 0 35 36 35 43 HZ-28 DO YOU WORK WITH CIRCUITS WHICH EMPLOY DON'T 25 20 58 58 25 33 0 35 36 35 43 HZ-28 DO YOU WORK WITH CIRCUITS WHICH EMPLOY DON'T 25 20 58 50 33 33 0 3 0 0 0 HZ-28 DO YOU WORK WITH CIRCUITS WHICH EMPLOY DON'T 25 20 58 25 33 0 0 0 2 2 0 0 HZ-28 DO YOU WORK WITH CIRCUITS WHICH EMPLOY DON'T 25 20 58 25 22	INPUT L.TYPE FILTERS									-			
IMPUT L-TTPE FILTERS H2-26 DO 70U MORK WITH CIRCUITS WHICH EMPLOY LC PI-TYPE H2-26 DO 70U WORK WITH CIRCUITS WHICH EMPLOY RC PI-TYPE FILTERS H2-26 DO 70U WORK WITH CIRCUITS WHICH EMPLOY DON'T REMEMBER WHICH TYPE OF FILTER H2-26 DO 70U WORK WITH CIRCUITS WHICH EMPLOY DON'T REMEMBER WHICH TYPE OF FILTER H2-27 DO 70U WORK WITH CIRCUITS WHICH EMPLOY DON'T REMEMBER WHICH TYPE OF FILTER H2-27 DO 70U WORK WITH CIRCUITS WHICH EMPLOY DON'T REMEMBER WHICH A DIFFERENT TYPE FILTER H3-01 DO 70U WORK WITH CSCILLATORS IN 70UR PRESENT JOB 28 80 83 83 50 33 100 32 36 25 22	507 H2-25 DO YOU WORK WITH CIRCUITS MHICH EMPLOY	61	0	6.7	67	50	33	100	3.6	0	35	30	
H2-26 DO TOU WORK WITH CIRCUITS WHICH EMPLOY LC PI-TYPE 9 40 50 25 0 100 34 38 25 26 FILTERS H2-28 DO TOU WORK WITH CIRCUITS WHICH EMPLOY DON'T REMEMBER WHICH TYPE OF FILTER H2-28 DO TOU WORK WITH CIRCUITS WHICH EMPLOY DON'T REMEMBER WHICH TYPE OF FILTER H2-28 DO TOU WORK WITH OFFIGURE ONE TYPE OF THE OFFICER ONE TYPE OF THE WITH A DIFFERENT TYPE FILTER H3-01 DO TOU WORK WITH OSCILLATORS IN TOUR PRESENT JOB 28 80 83 83 50 33 100 32 38 25 22	IMPUT L-TYPE FILTERS												
FILTERS FILTERS HZ-27 DO YOU WORK WITH CIRCUITS WHICH EMPLOY RC PI-TYFE 9 40 50 50 25 0 100 35 38 30 26 FILTERS HZ-28 DO YOU WORK WITH CIRCUITS WHICH EMPLOY DON'T 25 20 56 25 33 D 35 36 35 43 REMEMBER WHICH TYPE OF FILTER HZ-29 DO YOU WAYETHE OPTION OF TYPE OF TYPE OF 6 20 33 33 D 0 D 2 2 0 0 HZ-29 DO YOU WORK WITH A DEFENENT TYPE FILTER H3-01 DO YOU WORK WITH OSCILLATORS IN YOUR PRESENT JOB 28 80 83 83 50 33 100 32 36 25 22	SOB HZ-Z6 DO YOU WORK WITH CIRCUITS WHICH EMPLOY LC	0-	0	20	20	52	0	100	74	38	25	3.6	
H2-27 DO 70U MORK WITH CIRCUITS WHICH EMPLOY RC PI-TYPE 9 40 50 25 0 100 35 38 30 26 FILTERS H2-28 DO 70U WORK WITH CIRCUITS WHICH EMPLOY DON'T 25 20 58 58 25 33 0 35 35 43 H2-29 DO 70U WORK WITH CIRCUITS WHICH TYPE OF FILTER HITH A DIFFERENT TYPE OF FILTER HITH A DIFFERENT TYPE FILTER HITH TYPE FILTER HITH A DIFFERENT TYPE FILTER TYPE FILTE													
FILTERS NZ=28 DO WORK MITH CIRCUITS WHICH EMPLOY DON*T REMEMBER WHICH TYPE OF FILTER MZ=29 DO YOU WORK MITH OF FILTER HZ=29 DO YOU WAYE THE OPTION OF REPLACING ONE TYPE OF FILTER WITH A DIFFERENT TYPE FILTER H3=01 DO YOU WORK WITH OSCILLATORS IN YOUR PRESENT JOB Z8 60 83 83 50 33 100 32 36 25 22	509 HZ-27 DO YOU WORK WITH CIRCUITS WHICH EMPLOY RC	6	0	20	20	52	0	100	35	38	30	20	
NA=28 DO 750 WORK WITH CIRCUITS WHICH EMPLOY DON'T 25 20 58 25 33 D 35 35 43 REMEMBER WHICH TYPE OF FILTER HA-28 DO 750 WORK WITH A DIFFERENT TYPE FILTER H3-01 DO 700 WORK WITH A DIFFERENT TYPE FILTER	FILTERS											-	
#2-27 DO TOTAL MAYE THE OPTICHED OF REPLACING ONE TYPE OF 6 20 33 33 D D D 2 2 0 0 FILTER WITH A DIFFERENT TYPE FILTER H3-01 DO 700 MORK WITH OSCILLATORS IN TOUR PRESENT JOB 28 80 83 83 50 33 100 32 36 25 22	SIG MA-AS DO TOU WORK WITH CINCUITS W	52	20	O.	50	25	25	a	2	95	35		
FILTER WITH A DIFFERENT TYPE FILTER H3-01 DO YOU MORK WITH OSCILLATORS IN YOUR PRESENT JOB 28 60 83 83 50 33 100 32 36 25 2	SII M2-29 DO TOU MAYE THE OPTION OF REPLACING ONE TYPE	٠	20	13		O	0	o	7	2	0	0	**
H301 DO YOU WORK WITH CSCILLATORS IN YOUR PRESENT JOB 28 BO 83 83 50 33 100 32 36 25 2	FILTER WITH A DIFFERENT TYPE FILTER												
	H3-01 DO YOU WORK HITH OSCILLATORS IN YOUR PRESENT JO	28	80	83	93	S.D.	33	100	35	36	25	22	

PCT MBRS RESPONDING TYES! BY SELECTED GRPS TASK GROUP SUMMARY PERCENT MEMBERS PERFORMING

GPSM48 PAGE 20

2			Š								4		-
20-67		DY-TSK	1 4 0	0.65	990	240	0 690	070	5PC 5	SPC S	073	7 4 7	075 075
	3			1									
20 20 20 20 20 20 20 20 20 20 20 20 20 2	0 0	INSPECT DSCILLATORS	2	909	65	65	20	33	00	54	54	52	1.1
	3	DSCILLATOR	97	9	10	47	20	_	00				17
-	00	E COMPLETE	78	50	65	62	20	_	00				13 OSCITATIONS
20-51	100	E OSCILLAT	9	0	75	75	25	-	00				
	100	DSCILLATOR CINCUIT	30	90	9.2	4.2	50	-	00				1.1
518 H3-07 DG	00 400	YOU TROUBLESHOOT TO OSCILLATOR COMPONENTS	6	0	75	15	25		200	-	-		
H3-08	YOU	errona or	20	9	10	10			0 0				
			4.0	200	6		57		000				
(F00)		FREGUENCY DETERMINING DEVICE	- 5	9	63	83	0		0	15	•		•
521 H3-10 DO YOU		USE DR REFER TO AMBITTUDE CTABLE CT	3.3	0.4								4	
		00 00 00 00	,	0 0	10	0	0		o		2 !	2	•
	3	מי אבר בא וס יאבר מיני	67	9	63	8	0	-	0	-		20	•
	3	OR REFER TO DAMPING	2	9	29	28	0		0	0	7	s	•
7	3	ON MEFER TO REGENERATIVE	2	9	83	63	52		o _o		•	2	13
H3-14	100	OR REFER TO	*	0	80	20	0		0			s	•
H3-15		OR REFER TO CRITICAL DAN	•	0	25	52	0		-		-	•	
H3=16		OR REFER TO	*	0.	42	42	0				1	s	
		OR REFER TO	4	0.	33	33			0 0	۰	,		
529 H3-18 DO YOU		C WITH OSCILL	•	40	63	93	25	0	00		26	0	11
									,				
530 H3-19 DO YOU	0 400	MORK WITH OSCILLATORS WHICH USE RC NETWORKS AS	2.1	09	63	83	25	0	00	23	5.6	0	117
F00		1				ŀ							
		AIONS ANICH USE CATSTAL	67	0	63	2 8	5 2	-	00	3.0	31	5	22
132 H3-21 30	NOA C	HART DO YOU MORE WITH DEFILLATORS WHICH HEE DOLLOT BEATERED	,	00			1	:	-				
	TYPE O		0	2	7.	;	5,2	20	0	2		2	, ,
533 H3-22 DO	O YOU	H3-22 DO YOU HORK WITH SERIES HARTLEY SINUSOIDAL	•	0	20	20	25	0	00				
	TORS				1	;	,	•				,	
	O YOU	MITH	•	0.	50	20		-	00	-		2	6
	2 700 1	WITH COLPITTS SINUSCIDAL OSCILLATORS	•	0	6.3	63		_	30	_		2	•
	O YOU	WITH CLAPP SINUSOIDAL OS		0	33	33	1	-	00	2	5	5	0
		SINUSOIDAL	7	0	1.7	11		_	00	5	5		
I	TOU A	FAEMBER MH	17	20	20	20	50	33	00	5	1	0	
05C1LLA	170R5												
539 11-01 00	7 400	RATORS IN YOUR PI	26	0.0	83	83	25	-		-	1		30
540 11-02 00	1001	ING OR SHAPING	6	90	6.0	83	25	-		24			
541 11-03 00	1 007 0	VE GENER	3.6	00	75	75	25	0	00			0.	1)
CIRCUITS	1.5												
542 11-04 00	2 400	S42 11-04 DO TOU CALIBRATE WAVE GENERATING OR SHAPING CIRCUITS	6	90	75	15	25	-	00	5	1	0	1 3 MULTIVIBRATOR
543 11-05 00	004 0	MAYE GENERATING OR SH	30	80	6	8.3	25	0	200		7.1		
CIRCUITS	12							•				2	
544 11-05 00	YOU	11-06 DO YOU TROUBLESHOOT TO MAVE GENERATING OR SHAPING	1.7	90	6.9	63	25	0	00	5.6	•	20	13
CIRCUIT COMPONENTS	TOWP	EXCOME OF SPECIAL STATES OF SPECIAL SP		0	d	-							
	CIRCL	The state of the s	17	2	50		63	0	00			0	
546 11-03 DO YOU REMOVE	TOU !	EMOVE OR REPLACE MAVE GEMERATING OR SHAPING	•	0	75	35	c	0	C	2.2		5.0	
	NTS.						2					2	
547 11-09 00	2000	11-09 DO YOU MORK MITH MULTIVIBRATORS WHICH CONTAIN LC TANK	1.1	40	63	6.8	25	0	00	26 2	1	3.5	

PCT MBRS RESPONDING .YES! BY SELECTED GRPS

GPSM48 PAGE ZI

TASK GROUP SUMMARY PERCENT MEMBERS PERFORMING

\$ 5 5 6 6 6 6 6 6 6 6 6 6 6 6 6 6 6 6 6														
See 11-10 DO TOU O'GER WITH WILLIIJERATORS WHICH CONTAIN RCC. 21 00 25 25 25 10 100 23 25 25 10 100 100 100 100 100 100 100 100 100			SPC	SPC	SPC			500	50	٠,		580		
	And the second s	Yellak	0	0	0	1		2	2			2		
The Thomas The	8 11-10 00 YOU WORK	TORS WHICH CONTAIN	2.1	0.9	7.5	15			0	•	1 2	-		
Second Color Seco	NETHORKS		•											
11 10 10 10 10 10 10 10	11-11 00 100 WORK	TORS BILLON	-	09	15	15	25	-	00	*	1	, ,		
\$55 11-10 OF TOW WORK WITH LINITERS OF CLAMPIES IN TOWN \$56 11-10 OF TOW WORK WITH LINITERS OF CLAMPIES IN TOWN \$57 11-10 OF TOW WORK WITH CHARTEN WITH LINITERS \$58 11-10 OF TOW WORK WITH CHART		4	4		:	:			,					
The control of the	220	NIA WALCH CON ALM		2	23	23			00	1	-			
11 12 12 12 13 14 15 15 15 15 15 15 15	HENEMBER WH				,			,						
Second Color	001 00 61-11	LIVIBRATORS	٥	0 0	67		57	-		91	•	-		
\$55 11-15 DO TOU ONK WITH BEINERS IN TOUR THE STATES BY SEAL OF 17 17 25 5 1 100 15 1 11 1 20 11 1 1 1 1 1 1 1 1 1 1 1 1 1	11-14 00 100 #ORK	HONOSTABLE MULTIVIBRATOR	۰	90	7.5		5 2			_		-		
555 12-02 00 00 00 00 00 00 00 00 00 00 00 00 0	11-15 DO YOU WORK	BISTABLE MULT	٠	00	• 1		52				-	-		
Second Column	11-16 DO YOU WORK	DON'T REHEMBEH WHICH T	52	0	11		25					204		
PASSET TO TO TO TO THE MAINTENANCE CARRETS IN TOTAL 10 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	TOTAL INTERNATIONS			1	1	1	1	1		1	1	1		
Color Colo	555 12-01 00 100 more	LIMITERS OR CLAMPERS IN		0	83	83	52			,	~	•		
\$56 12-09 00 VOICE WITH THE WITH PARTY DIGITAL WITERS \$57 12-09 00 VOICE WITH THE WITH PARTY DIGITAL WITERS \$58 12-09 00 VOICE WITH THE WITH PARTY DIGITAL WITERS \$58 12-09 00 VOICE WITH THE WITH PARTY DIGITAL WITERS \$58 12-09 00 VOICE WITH THE WITH PARTY DIGITAL WITERS \$58 12-09 00 VOICE WITH THE WITH PARTY DIGITAL WITERS \$58 12-09 00 VOICE WITH THE WITH PARTY DIGITAL WITERS \$58 12-09 00 VOICE WITH THE WITH PARTY DIGITAL WITERS \$58 12-09 00 VOICE WITH THE WITH PARTY DIGITAL WITERS \$58 12-09 00 VOICE WITERS \$59 12-09 00 VOICE WITERS \$59 12-09 00 VOICE WITERS \$50 12-09	12-02 00 YOU WORK	SERIES DID	•	04	75	1	c					-		AMI
\$5.0 TOW WORK WITH CHANGES THAT LINERS \$5.0 TOW WORK WITH CHANGES THAT LINES \$5.0 TOW WORK WITH CHANG	12-01 On YOU WORK	OCI O LAURA	•	1		, -	0 0							CALA
15-07 100 10	12-04 DO YOU WORK	INITERS IN	•	4	200		9 0							
\$45 12-00 TO UND WORK WITH DOWN'T KNUM WHICH TIPE OF LIMITERS 1 0 15 75 0 0 0 0 19 17 12 0 15 15 15 15 15 15 15 15 15 15 15 15 15	12-05 00 YOU WORK	ZENER DIDD	•	0.9	83		0 0					. ~		
\$40 12-07 00 100 work with gold of the feet of Limiters 11 0 31 31 25 0 100 11 12 10 13 13 13 13 13 14 15 15 15 15 15 15 15	12-06 DO YOU WORK	TRANSISTOR	•	09	67	7								
\$4.5 12-00 DO TOU WORK WITH DIDGE CLAMPING CREQUIS, WITH BIAS 4-00 TS 5-5 TS 0 TO 19 TS 17 TS 19	12-07 00 YOU WORK	DON'T KNOW WHICH TYPE OF LIMITER	=	0	33	-	25	-				-		
\$44 12-10 TO TOU WORK WITH DIDEE CLAMPING CIRCUITS WITH BIAS \$45 12-10 TO TOU WORK WITH DON'T KNOW WHICH TWEE CELLANDING \$5 13-10 TOU WORK WITH DON'T KNOW WHICH TWEE CELLANDING \$5 13-10 TOU WORK WITH DON'T KNOW WHICH TWEE CELLANDING \$5 13-10 TOU WORK WITH DON'T KNOW WHICH TWEE CELLANDING \$5 13-10 TOU WORK WITH DON'T KNOW WHICH TWEE CELLANDING \$5 13-10 TOU WORK WITH DON'T KNOW WHICH TWEE CELLANDING \$5 13-10 TOU WORK WITH DON'T KNOW WHICH TWEE CELLANDING \$5 13-10 TOU WORK WITH DON'T KNOW WHICH TWEE CELLANDING \$5 13-10 TOU WORK WITH TWEE TO CHECK ELECTRON TUBES \$5 13-10 TOU WORK WITH TWEE TO CHECK ELECTRON TUBES \$5 13-10 TOU WORK WEER TO CHECK ELECTRON TUBES \$5 13-10 TOU WORK WEER TO CHECK ELECTRON TUBES \$5 13-10 TOU WORK WEER TO CHECK ELECTRON TUBES \$5 13-10 TOU WORK WEER TO CHECK ELECTRON TUBES \$5 13-10 TOU WORK WEER TO CHECK ELECTRON TUBES \$5 13-10 TOU WORK WEER TO TRANSIT TIME \$5 13-10 TOU WORK WEER TO CHECK ELECTRON TUBES \$5 13-10 TOU WORK WEER TO CHECK ELECTRON TUBES \$5 13-10 TOU WORK WEER TO TRANSIT TIME \$5 13-10 TOU WORK WEER TO CHECK ELECTRON TUBES \$5 13-10 TOU WORK WEER TO CHECK TOU THAT THE CHECK TOU TOU TOU WORK WEER TO TRANSIT TIME \$5 13-10 TOU WORK WEER TO CHECK TO CHECK TOU THAT THE CHECK TOU TOU WORK WEER TO THAT THE CHECK TO	12-08 DO YOU WORK	BASIC DIODE CLAMPING CIRCUITS	*	0.9	75	s	0							
5.65 13-01 DO TOU WORK WITH DON'T KNOW WHICH TYPE OF CLAMPING 13 33 25 0 100 13 19 10 22 CLARCHI TOUR PRESENT JOB, DO YOU WORK ON EQUIPMENT WHICH 53 100 92 92 75 67 100 73 71 75 74 CLARCHI TOUR PRESENT JOB, DO YOU WORK ON EQUIPMENT WHICH 53 100 92 92 75 67 100 73 71 75 74 CONTAINS ELECTRON TUBES TO SEE IF THAT ARE GOOD 40 60 100 100 75 67 100 90 10 75 67 100 90 10 10 10 75 67 100 90 10 10 10 75 67 10 10 10 10 10 10 10 10 10 10 10 10 10	12-09 DO TOU WORK	DIDDE CLAMPING CIRCUITS WITH B	•	0	20		a							
545 GARANA ELECTRON TOBS OF YOU WORK ON EQUIPMENT WHICH 53 100 92 92 75 67 100 73 71 75 74 CONTAINS ELECTRON TUBES TO SEE IF THEY ARE GOOD 30 60 100 100 75 67 100 90 34 50 30 100 100 100 100 100 100 100 100 100	12-10 DO YOU WORK	DON'T KNOW WHICH TYPE OF CLAMP	13	0	33	•	25	_				2		
Second Continue	1	3 3 3 3 3 3 3 3 3 3 3 3 3 3 3 3 3 3 3 3		1						1	1	1.		
13-02 DO YOU CHECK ELECTRON TUBES 10 SEE F THET ARE 600D 40 60 100 75 67 100 40 36 50 100 10 7 15 15 15 15 15 15 15	200	200 000 000 000 000 000 000 000 000 000	66	20	7.				0					
13-03 DO YOU USE TUBE TESTERS TO CHECK ELECTRON TUBES 39 60 100 100 50 33 100 10 7 15 7 15 7 15 15 15 15 15 15 15 15 15 15 15 15 15	13-02 00	RON TUBES TO SEE IF THEY ARE 600	0	09	100							•		
13-04 DO YOU USE MULTIMETERS TO CHECK ELECTRON TUBES 13-05 DO TOU USE SCOPET TO CHECK ELECTRON TUBES 13-05 DO TOU USE SCOPET TO CHECK ELECTRON TUBES 13-05 DO TOU USE SCOPET TO CHECK ELECTRON TUBES 13-05 DO TOU USE SCOPET TO CHECK ELECTRON TUBES 13-06 DO TOU USE SCOPET TO CHECK ELECTRON TUBES 13-07 DO TOU USE SCOPET TO PEAK LINVERSE VOLTAGE RATING 13-08 DO TOU USE OR REFER TO PEAK CHERRE TO TANIST TIME 13-10 DO TOU USE OR REFER TO TANIST TIME 13-10 DO TOU USE OR REFER TO TANIST TIME 13-11 DO TOU USE OR REFER TO TANIST TIME 13-12 DO TOU USE OR REFER TO TANIST TIME 13-13 DO TOU USE OR REFER TO CANIST TIME 13-14 DO TOU USE OR REFER TO CANIST TIME 13-15 DO TOU USE OR REFER TO CANIST TIME 13-15 DO TOU USE OR REFER TO CANIST TIME 13-15 DO TOU USE OR REFER TO CANIST TIME 13-16 DO TOU USE OR REFER TO CANIST TIME 13-17 DO TOU USE OR REFER TO CANIST TIME 13-18 DO TOU USE OR REFER TO CANIST TIME 13-19 DO TOU USE OR REFER TO CANIST TIME 13-19 DO TOU USE OR REFER TO CANIST TIME 13-19 DO TOU USE OR REFER TO CANIST TIME 13-19 DO TOU USE OR REFER TO CANIST TIME 13-19 DO TOU USE OR REFER TO CANIST TIME 13-19 DO TOU USE OR REFER TO CANIST TIME 13-19 DO TOU USE OR REFER TO CANIST TIME 13-19 DO TOU USE OR REFER TO CANIST TIME 13-19 DO TOU USE OR REFER TO CANIST TIME 13-19 DO TOU USE OR REFER TO CANIST TIME 13-19 DO TOU USE OR REFER TO CANIST TIME 13-19 DO TOU USE OR REFER TO CANIST TIME 13-19 DO TOU USE OR REFER TO CANIST TIME 13-19 DO TOU USE OR REFER TO CANIST TIME 13-19 DO TOU USE OR REFER TO CANIST TIME 13-19 DO TOU USE OR REFER TO CANIST TIME AND TOU USE OR TO THE CANIST TIME AND TOU USE OR TO THE CANIST TIME AND TOU USE OR THE CANIST TIME AND TOU USE OR TO THE CANIST TIME AND TOU	13-03 00	CHECK ELECTRON TUBE	38	0.9	100			_						
13-05 DO 700 USE SCOPES TO CHECK ELECTRON TUBES 13-05 DO 700 USE SCOPES TO CHECK ELECTRON TUBES 26	13-04 DO 40-E1	CHECK ELECTRON	6-	0.9	67								113	
13-07 DO TOU USE OR REFER TO FEAK INVERSE VOLTAGE RATING 13-07 DO TOU USE OR REFER TO FEAK INVERSE VOLTAGE RATING 13-08 DO TOU USE OR REFER TO FEAK INVERSE VOLTAGE RATING 13-09 DO TOU USE OR REFER TO FEAK CURRENT RATING 13-10 DO TOU USE OR REFER TO FEAK CURRENT 13-11 DO TOU USE OR REFER TO FEAT RESISTANCE 13-12 DO TOU USE OR REFER TO PLATE RESISTANCE 13-13 DO TOU USE OR REFER TO PLATE RESISTANCE 13-14 DO TOU USE OR REFER TO PLATE RESISTANCE 13-15 DO TOU USE OR REFER TO PLATE RESISTANCE 13-15 DO TOU USE OR REFER TO PLATE CURRENT 13-15 DO TOU USE OR REFER TO PLATE CURRENT 13-15 DO TOU USE OR REFER TO PLATE CURRENT 13-15 DO TOU USE OR REFER TO PLATE CURRENT 13-16 DO TOU USE OR REFER TO PLATE CURRENT 13-17 DO TOU USE OR REFER TO CATHODE VOLTAGE 13-18 DO TOU USE OR REFER TO CATHODE VOLTAGE 13-19 DO TOU USE OR REFER TO CATHODE VOLTAGE 13-19 DO TOU USE OR REFER TO CATHODE CURRENT 25-100 100 100 75-67 100 42-70	13-05 00 10u USE	ELECTRON TUBES	7.7	00	001	1	1	ľ				7		
13-09 10 10 10 10 10 10 10	350 00 00 00	TO CHECK ELECTRON	07		00.	-	-					•		
13-09 DO TOU USE OR REFER TO PEAKE CURRENT RATING 13-09 DO TOU USE OR REFER TO PEAKE CURRENT RATING 13-10 DO TOU USE OR REFER TO PEAKE CURRENT RATING 13-11 DO TOU USE OR REFER TO PEAKE DISTPATION RATING 13-12 DO TOU USE OR REFER TO PEAKE DISTPATION 13-13 DO TOU USE OR REFER TO DE PLATE DESTRAINE 13-13 DO TOU USE OR REFER TO DE PLATE CURRENT 13-14 DO TOU USE OR REFER TO PLATE CURRENT 13-15 DO TOU USE OR REFER TO PLATE CURRENT 13-15 DO TOU USE OR REFER TO CATHODE VOLTAGE 13-16 DO TOU USE OR REFER TO CATHODE VOLTAGE 13-17 DO TOU USE OR REFER TO CATHODE VOLTAGE 13-18 DO TOU USE OR REFER TO CATHODE WILTHIGHT 13-19 DO TOU USE OR REFER TO CATHODE WILTHIGHT 13-19 DO TOU USE OR REFER TO CATHODE WILTHIGHT 13-19 DO TOU USE OR REFER TO CATHODE WILTHIGHT 13-19 DO TOU USE OR REFER TO CATHODE WILTHIGHT 13-19 DO TOU USE OR REFER TO CATHODE EMPLIFICATION 13-19 DO TOU USE OR REFER TO CATHODE SIS DEFINED AS 13-21 DO TOU USE OR REFER TO THE TRIDDES IS DEFINED AS FACTOR THE AMPLIFICATION FACTOR FOR TRIDDES IS DEFINED AS THE RATIO OF CHAMSE IM PLATE VOLTAGE TO A CHAMSE IN GRID	13-08 OO VOU US	STATION SOURCE NO. 24	: :	200	36									
13-10 DO YOU USE OR REFER TO TRANSIT TIME	13-09 00 100 056 08	REFER TO PERK CURRENT RATING	: :	0	25									
13-11 DO TOU USE OR REFER TO PLATE DISSIPATION RATING 11 20 50 25 33 15 10 10 10 10 10 10 10	13-10 00 YOU USE OR	REFER TO TRANSIT TIME		40	25									
13-12 DO YOU USE OR REFER TO SATURATION 19 100 75 75 50 67 0 23 21 25 13-13 DO YOU USE OR REFER TO DC PLATE RESISTANCE 13 60 75 75 50 67 0 10 7 15 13-14 DO YOU USE OR REFER TO PLATE RESISTANCE 13 60 75 75 50 67 0 10 7 7 15 13-15 DO YOU USE OR REFER TO PLATE VOLTAGE 25 100 100 100 75 67 100 42 45 35 13-15 DO YOU USE OR REFER TO PLATE WOLTAGE 26 100 100 100 75 67 100 42 45 35 13-16 DO YOU USE OR REFER TO GRID WOLTAGE 25 100 100 100 75 67 100 42 45 35 13-17 DO YOU USE OR REFER TO GRID WOLTAGE 25 100 100 100 75 67 100 44 45 40 13-18 DO YOU USE OR REFER TO CATHODE VOLTAGE 25 100 100 100 75 67 100 44 45 40 13-19 DO YOU USE OR REFER TO THE TRIDES IS DEFINED AS THE MALTER WOLTAGE TO A CHAMGE IN GRID AS THE MALTER WOLTAGE TO A CHAMGE IN GRID AS THE MALTER WOLTAGE TO A CHAMGE IN GRID AS THE MALTER WOLTAGE TO A CHAMGE IN GRID AS THE MALTER WOLTAGE TO A CHAMGE IN GRID AS THE MALTER WOLTAGE TO A CHAMGE IN GRID AS THE MALTER WOLTAGE TO A CHAMGE IN GRID AS THE MALTER WOLTAGE TO A CHAMGE IN GRID AS THE MALTER WOLTAGE TO A CHAMGE IN GRID AS THE MALTER WOLTAGE TO A CHAMGE IN GRID AS THE MALTER WOLTAGE TO A CHAMGE IN GRID AS THE MALTER WOLTAGE TO A CHAMGE IN GRID AS THE MALTER WOLTAGE TO A CHAMGE TO GRID AS THE MALTER WOLTAGE TO A CHAMGE T	13-11 DO TOU USE OR	REFER TO PLATE DISSIPATION RAT	=	20	20									
13-13 DO TOU USE OR REFER TO DC PLATE RESISTANCE 13 60 75 75 50 67 0 10 7 15 15 13-14 DO TOU COMPUTE ACTUAL VALUES OF THE DC PLATE 0 20 33 33 0 0 0 2 2 2 0 13-14 DO TOU COMPUTE ACTUAL VALUES OF THE DC PLATE 0 20 33 33 0 0 0 0 2 2 2 0 13-15 DO TOU USE OR REFER TO PLATE VOLTAGE 26 100 100 100 75 67 100 42 45 35 13-15 DO TOU USE OR REFER TO CATHODE VOLTAGE 26 100 100 100 75 67 100 42 45 35 13-19 DO TOU USE OR REFER TO CATHODE VOLTAGE 25 100 100 100 75 67 100 42 45 35 13-19 DO TOU USE OR REFER TO CATHODE VOLTAGE 25 100 100 100 75 67 100 42 45 35 13-21 DO TOU USE OR REFER TO CATHODE VOLTAGE 25 100 100 100 50 67 0 2 2 2 30 13-21 DO TOU USE OR REFER TO CATHODE CURRENT 25 100 100 100 50 67 0 2 2 2 30 13-21 DO TOU USE OR REFER TO CATHODE CURRENT 25 100 100 100 100 50 67 0 2 2 2 30 13-21 DO TOU USE OR REFER TO THE TRIODES IS DEFINED AS THE RATIO OF CHAMGE IN PLATE VOLTAGE TO A CHAMGE IN GRID	13-12 DO YOU USE	RATION	6-	100	75									
3-14 DO TOU COMPUTE ACTUAL VALUES OF THE DC PLATE	13-13 00 TOU USE	EFER TO DE PLATE RESISTANCE	13	0.4	7.5									
RESISTANCE FOR ELECTRON TOBES RESISTANCE FOR ELECTRON TOBES 13-15 DO TOU USE OR REFER TO PLATE CURRENT 13-15 DO TOU USE OR REFER TO PLATE CURRENT 13-17 DO TOU USE OR REFER TO GATHODE VOLTAGE 13-18 DO TOU USE OR REFER TO GATHODE VOLTAGE 13-19 DO TOU USE OR REFER TO GATHODE WITHOUT TO TOU USE OR REFER TO GATHODE SIS DEFINED AS TO TOU USE OR REFER TO GATHODE SIS DEFINED AS TO TOU USE OR REFER TO THE TRIDDES IS DEFINED AS TO TOU USE OR REFER TO THE TRIDDES IS DEFINED AS TO TOU USE OR CHAMSE IN PLATE WOLTAGE TO A CHAMSE IN GRID	-	LUES OF THE DC PLA	0	20	33									
13-15 00 100 USE OR REFER TO FLATE CURRENT 13-17 00 700 USE OR REFER TO FLATE CURRENT 13-17 00 700 USE OR REFER TO GATHODE VOLTAGE 13-18 00 700 USE OR REFER TO GATHODE VOLTAGE 13-19 00 700 USE OR REFER TO GATHODE VOLTAGE 13-19 00 700 USE OR REFER TO GATHODE WITHOUT TO THE REFER TO GATHODE SIS DEFINED AS 13-19 00 700 USE OR REFER TO GATHODE SIS DEFINED AS 13-10 00 700 USE OR REFER TO THE TRIDDES IS DEFINED AS FACTOR THE AMPLIFICATION FACTOR FOR TRIDDES IS DEFINED AS THE RATIO OF CHAMSE IM PLATE VOLTAGE TO A CHAMSE IN GRID	RESISTANCE FOR E		:					,						
13-15 00 TOU USE ON REFER TO FLATE CURRENT 13-16 00 TOU USE ON REFER TO GRID VOLTAGE 13-18 00 TOU USE ON REFER TO GRID VOLTAGE 13-19 00 TOU USE ON REFER TO GATHODE VOLTAGE 13-19 00 TOU USE ON REFER TO GATHODE VOLTAGE 13-21 00 TOU USE ON REFER TO THE TRIDE AFFLICATION 13-21 00 TOU USE ON REFER TO THE TRIDES SO DEFINED AS FACTOR THE AMPLEFICATION FALTOR FOR TRIDES IS DEFINED AS THE RATIO OF CHAMGE IM PLATE VOLTAGE TO A CHAMGE IN GRID	350 00 00 01=51	4	43	00	001		5	. ,						
13-17 DO TOU USE UN REFER TO GNID VOLTAGE 13-18 DO TOU USE ON REFER TO GNID CUNRENT 13-18 DO TOU USE ON REFER TO CATHODE CUNRENT 13-20 DO TOU USE ON REFER TO CATHODE CUNRENT 13-21 DO TOU USE ON REFER TO THE TRIDDE AMPLIFICATION FACTOR (THE AMPLIFICATION FACTOR FOR TRIDDES IS DEFINED AS THE MATIO OF CHAMGE IM PLATE VOLTAGE TO A CHAMGE IN GRID	13-16 00 10U USE ON	REFER TO PLATE	56	001	001	1	00	,						
13-18 00 100 USE UN REFER TO GRID CUNNENT 13-19 00 100 USE UN REFER TO CATHODE VOLTRAGE 13-20 00 100 USE UN REFER TO CATHODE VOLTRAGE 13-21 00 700 USE UN REFER TO CATHODE CURRENT 13-21 00 700 USE UN REFER TO THE TRIODE AMPLIFICATION FACTOR (THE AMPLIFICATION FACTOR FOR TRIODES IS DEFINED AS THE RATIO OF CHAMGE IM PLATE VOLTAGE TO A CHAMGE IN GRID	13-17 00 100 USE UN	HEFER TO SKID	**	00	001		5							
13-20 00 100 USE OF REFER TO CATHODE CUFRENT 13-20 00 100 USE OF REFER TO CATHODE CUFRENT 13-21 00 100 USE OF REFER TO THE TRIODE AMPLIFICATION 7 80 33 33 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	וארו של מי	REFER TO SRID CURRENT	7.0	000	001		0							
FACTOR THE AMPLIFICATION FACTOR FOR TRIODES IS DEFINED AS THE RATIO OF CHAMGE IM PLATE VOLTAGE TO A CHAMGE IN GRID	13-20 00 100 USE OR	BEFER TO CATHODE VOLTAGE	52	000	000		5.5	-						
FACTOR ITHE AMPLIFICATION FACTOR FOR TRIDDES IS DEFINED AS THE RATIO OF CHAMSE IN PLATE FOLTAGE TO A CHAMSE IN GRID	5 13-21 00 YOU USE OR	TO THE TRIODE AMPLISICAL		0 00	33		2 0	0						
TO OF CHAMSE IM PLATE VOLTAGE TO A CHAMSE IN SPI	FACTOR ITHE	FACTOR FOR TRIODES IS DEFINED A		2	:		0							
	10 04	IM PLATE VOLTAGE TO A CHAMGE IN SRI												

PCT MBRS RESPONDING . YES" BY SELECTED GRPS

GPSM48 PAGE 22

4 0.65 0.67 0.67 0.72 0.73 0.74 0.65 0.66 0.67 0.67 0.70 0.71 0.72 0.73 0.74 0 6.6 1.7 1.7 0.69 0.70 0.71 0.72 0.73 0.74 2 8.6 3.3 3.3 0 0 0 0 2 2 0 0 0 0 2 2 0			9	SBC	28.0	200	9	285	9	9	200	Sec	245	
Second S		DY-15K	1 40	0 4 5	. 0	067	. 0	010	071	072	073	674	075	
15-25 DO TOU UNES OF REFERENCE PRINCIPLE PRINC		13-22 DO YOU CALCULATE ACTUAL VALUES OF TRI	0	9	17		0	0	a	2	7	0	*	
FULL DATA TOTAL STATES OF REFERENCE IN A DESCRIPTION TO BE TRANSCONDUCTARCE 0 40 33 33 0 0 0 0 0 0 0 0 0 0 0 0 0 0	5	7 13-23 DO YOU USE OR REFER TO MULTIGRID (TETRODE, PENT	7	80			0	0	D	30	01	un	0-	
		ETC! AMPLIFICATION FACTORS	0		33		c	0	C	۳	ı	a	•	
1912 1912		16. WHICH IS MEASURED IN WHOS)		3.0	d			0		~	2	d		
991 13-25 DO TOU USE OF REFER TO ELECTRON TUBE PARANTER		TRANSCONDUCTANCES	•	:	,	•	>		2					
979 13-22 00 00 US REFER TO CHARACTERISTIC CURVES IN YOUR 2 60 25 25 0 0 0 0 3 5 0 9 9 10-22 00 00 US OF REFER TO CHARACTERISTIC CURVES IN YOUR 2 60 25 25 0 0 0 0 2 2 0 9 9 10-20 00 US OF REFER TO CHARACTERISTIC CURVES IN YOUR 2 60 25 25 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0		13-26 DO YOU USE OR REFER TO THE ELECTRON TUBE PARAMETE	2	0 7	00	00	a	0	0	2	2	0	•	
### ### ### ### ### ### ### ### ### ##		13-27 DO YOU CALCULATE ACTUAL VALUES OF AC PL	0	20	17	17	a	0	O	~	S	a	•	
CATATINATE CAT		RESISTANCE 13-28 DO YOU USE OR REFER TO ELECTRON TUBE INTERELECT	•	0.9	33	33	a	0	ō	~	•	0	•	
WORK WITH ELEGYNON TUBES WORK WITH ELECTRON TUBE WORK WITH ELECTRON TUBES WORK WITH ELECTRON TUBE WORK WITH ELECTRON WORK WORK WITH ELECTRON WORK WITH ELECTRON WORK WITH ELECTRON WORK WORK WITH ELECTRON WORK WITH ELECTRON WORK WITH ELECTRON WORK WORK WITH ELECTRON WORK WITH ELECT		CAPACITANCE 13-29 DO YOU USE OR REFER TO CHARACTERISTIC CURVES IN Y	2	9	25	25	0	0	C	2	7	0	*	
999 13-31 00 TOU USE CHARACTERISTIC CURVES TO SELECT PLATE 999 13-31 00 TOU USE CHARACTERISTIC CURVES TO SELECT PLATE 999 13-31 00 TOU USE CHARACTERISTIC CURVES TO SELECT BIAS 999 13-30 00 TOU USE CHARACTERISTIC CURVES TO SELECT BIAS 999 13-30 00 TOU USE CHARACTERISTIC CURVES TO SELECT BIAS 999 13-30 00 TOU USE CHARACTERISTIC CURVES TO SELECT BIAS 999 13-30 00 TOU USE CHARACTERISTIC CURVES TO SELECT BIAS 999 13-30 00 TOU USE CHARACTERISTIC CURVES TO SELECT BIAS 990 13-30 00 TOU USE CHARACTERISTIC CURVES TO SELECT BIAS 900 13-30 00 TOU USE CHARACTERISTIC CURVES TO DETERMINE ELECTROM 900 13-30 00 TOU USE CHARACTERISTIC CURVES TO DETERMINE ELECTROM 901 13-30 00 TOU USE CHARACTERISTIC CURVES TO DETERMINE ELECTROM 901 13-30 00 TOU USE CHARACTERISTIC CURVES TO DETERMINE ELECTROM 902 13-30 00 TOU USE CHARACTERISTIC CURVES TO DETERMINE ELECTROM 903 13-30 00 TOU USE CHARACTERISTIC CURVES TO DETERMINE ELECTROM 903 13-30 00 TOU USE CHARACTERISTIC CURVES TO DETERMINE ELECTROM 903 13-30 00 TOU USE CHARACTERISTIC CURVES TO DETERMINE ELECTROM 903 13-30 00 TOU USE CHARACTERISTIC CURVES TO DETERMINE ELECTROM 903 13-30 00 TOU USE OFFICER TO DIM NUMBERINE SYSTEMS 904 13-30 00 TOU USE OFFICER TO DIM NUMBERINE SYSTEMS 905 13-30 00 TOU USE OFFICER TO DIM NUMBERINE SYSTEMS 905 13-30 00 TOU USE OFFICER TO THE TYPE CONTINUE TO DID TOO TOO TOO TOO TOO TOO TOO TOO TOO TO		WORK WITH ELECTRON TUBES	*	9	25	25	0	0		100	'n		*	
CUMPENT FOR A SPECIFIED BIAS CUMPENT FOR A SELECT BIAS CUMPENT FOR A SPECIFIED BIAS CUMPENT FOR SILVERTREN TO TOU USE CHARACTERISTIC CUMPES TO SELECTRON TUBE AND INTO WAS CHARACTERISTIC CUMPES TO DETERNINE ELECTRON TUBE CUMPENT FOR A SILVERTREN BIAS CUMPENT FOR A SILVER BIAS CUMPENT		VOLTAGE FOR A SPECIFIED BIAS	3	0	35			С		4	J	-		
997 119-33 DO 700 USE CHARACTERISTIC CURVES TO SELECT BIAS 997 119-33 DO 700 USE CHARACTERISTIC CURVES TO SELECT BIAS 997 119-33 DO 700 USE CHARACTERISTIC CURVES TO SELECT BIAS 997 119-33 DO 700 USE CHARACTERISTIC CURVES TO SELECT BIAS 998 13-39 DO 700 USE CHARACTERISTIC CURVES TO SELECTRON TOBE AMPLIFIER 999 13-39 DO 700 USE OR REFRA TO ELECTRON TOBE AMPLIFIER 999 13-39 DO 700 USE OR REFRA TO ELECTRON TOBE CALCATRON 999 13-39 DO 700 USE OR REFRA TO ELECTRON TOBE CALCATRON 999 13-39 DO 700 USE OR REFRA TO ELECTRON TOBE CALCATRON 999 13-39 DO 700 USE OR REFRA TO ELECTRON TOBE CALCATRON 999 13-39 DO 700 USE OR REFRA TO BETRAINE ELECTRON TOBE 999 13-39 DO 700 USE OR REFRA TO BETRAINE ELECTRON TOBE 999 13-39 DO 700 USE OR REFRA TO THE TOBE TO PIN NUMBERIAGE SUCH DO 73 33 30 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0		CURRENT FOR A SPECIFIED BIAS		2			0	0	2	0	,	2		
Separation Control C		13-32 DO YOU USE CHARACTERISTIC CURYES TO SELECT BIA	•	80		33	35	33	a	œ	s	15	*	
REGULATED FOR SATURATION REPERTOR REPERTOR REPERTOR REFERENCE REPERTOR REP		13-33 DO YOU USE CHARACTERISTIC CURVES TO SELECT BIA	gr	80	33	33	25	13	a	80	s	15		
### FEFT FOR THE FEFT TO ELECTRON TOBE AMPLIFIER		REGULARED FOR SATURATION		C	9.2		2	17	c	- 2	24	5	17	
EFFICIENCY 600 13-36 DO TOU USE TEST TUBE CHECKERS TO DETERMINE ELECTRON TUBE 601 13-36 DO TOU USE TOU USE CHECKERS TO DETERMINE ELECTRON TUBE 602 13-36 DO TOU USE MULTIMETERS TO DETERMINE ELECTRON TUBE 602 13-36 DO TOU USE MULTIMETERS TO DETERMINE ELECTRON TUBE 603 13-36 DO TOU USE MULTIMETERS TO DETERMINE ELECTRON TUBE 604 13-36 DO TOU USE CHARACTERISTIC CURVES TO DETERMINE 605 13-36 DO TOU USE CHARACTERISTIC CURVES TO DETERMINE 606 13-40 DO TOU USE MARETER TO TUBE SOCKET NOTATION 606 13-41 DO TOU USE OF REFER TO TUBE SOCKET NOTATION 606 13-41 DO TOU USE OF REFER TO TUBE SOCKET NOTATION 606 13-41 DO TOU USE OF REFER TO TUBE SUBSTITUTION MATERIAL 606 13-42 DO TOU USE OF REFER TO TUBE SUBSTITUTION MATERIAL 607 13-40 DO TOU USE OF REFER TO TUBE SUBSTITUTION MATERIAL 608 13-41 DO TOU USE OF REFER TO TUBE SUBSTITUTION MATERIAL 609 13-40 DO TOU USE OF REFER TO TUBE SUBSTITUTION MATERIAL 609 13-40 DO TOU USE OF REFER TO TUBE SUBSTITUTION MATERIAL 609 13-40 DO TOU USE OF REFER TO TUBE SUBSTITUTION MATERIAL 609 13-40 DO TOU USE OF DETERMINE THE CLASS OF OPERATION FOR ELECTRON 609 13-40 DO TOU USE OF DETERMINE THE CLASS OF OPERATION FOR ELECTRON 609 13-40 DO TOU USE OF DOTO TROUBLES AMPLIFIERS 609 13-40 DO TOU USE OF DETERMINE THE CLASS OF OPERATION FOR ELECTRON 609 13-40 DO TOU USE OF DOTO TROUBLES AMPLIFIERS 609 13-40 DO TOU USE OF DOTO TROUBLES AMPLIFIERS 609 13-40 DO TOU USE OF DOTO TROUBLES AMPLIFIERS 609 13-40 DO TOU USE OF THE CATTOR TOUR THE CLASS OF OPERATION FOR ELECTRON 609 13-40 DO TOU USE OF THE CATTOR TROUBLES OF OPERATION FOR ELECTRON 609 13-40 DO TOU USE OF THE CATTOR TROUBLES AMPLIFIERS 609 13-40 DO TOU USE OF THE CATTOR TROUBLES AMPLIFIERS 609 13-40 DO TOU USE OF THE CATTOR TROUBLES AMPLIFIERS 609 13-40 DO TOU USE OF THE CATTOR TROUBLES AMPLIFIERS 609 13-40 DO TOU USE OF THE CATTOR TROUBLES AMPLIFIERS 609 13-40 DO TOU USE OF THE CATTOR TROUBLES AMPLIFIERS 609 13-40 DO TOU USE OF THE CATTOR TROUBLES AMPLIFIERS 609 10 DO TO TOUR TROUBLES AMPLIFIERS 609 10 DO TO TOUR TR		13-35 DO YOU USE OR REFER TO ELECTRON TUBE AMPLIFIER		-	67		0	0	0	-	12	10		
TUBE AMPLIFIER GAIN 602 13-38 DO 700 USE MULTIMETERS TO DETERMINE ELECTRON TUBE 602 13-38 DO 700 USE MULTIMETERS TO DETERMINE ELECTRON TUBE 602 13-38 DO 700 USE CARACTERISTIC CURVES TO DETERMINE 603 13-38 DO 700 USE CARACTERISTIC CURVES TO DETERMINE 603 13-39 DO 700 USE CARACTERISTIC CURVES TO DETERMINE 604 13-39 DO 700 USE CARACTERISTIC CURVES TO DETERMINE 605 13-49 DO 700 USE CARACTERISTIC CURVES TO DETERMINE 606 13-40 DO 700 USE CARACTERISTIC CURVES TO DETERMINE 606 13-41 DO 700 USE CARACTERISTIC CURVES TO DETERMINE 606 13-42 DO 700 USE CARACTERISTIC CURVES TO THE SYSTEMS 606 13-42 DO 700 USE CARACTERISTIC CURVES TO THE SYSTEMS 606 13-42 DO 700 USE CARACTERISTIC CURVES TO THE SYSTEMS 607 TO 700 USE CARACTERISTIC CURVES TO THE CARACT		EFFICIENCY 13-36 DO YOU USE TEST TUBE CHECKERS TO DETERMINE ELECTRO	23	0	92	4.5	25	٥	0	•	0	01	0	
######################################		TUBE AMPLIFICA GAIN					3.6	0	(•			And the State of t
######################################		AMPLIFIER GAIN		0	6		6,	•	•	2	:	2		
ELECTRON TUBE AMPLIFIER GAIN 603 13-39 DO YOU USE CHARACTERISTIC CURVES TO DETERNINE 604 13-30 DO YOU USE CHARACTERISTIC CURVES TO DETERNINE 605 13-40 DO YOU CALCULATE ANY ELECTRON TUBE CAPACITANCES SUCH 605 13-41 DO YOU USE OR REFER TO TUBE SOCKET NOTATION 606 13-42 DO YOU USE OR REFER TO TUBE SOCKET NOTATION 606 13-42 DO YOU USE OR REFER TO TUBE SUBSTITUTION MATERIAL 607 13-43 DO YOU USE OR REFER TO TUBE SUBSTITUTION MATERIAL 608 13-44 DO YOU USE OR REFER TO TUBE SUBSTITUTION MATERIAL 609 13-43 DO YOU USE OR REFER TO TUBE SUBSTITUTION MATERIAL 609 13-43 DO YOU USE OR REFER TO TUBE SUBSTITUTION MATERIAL 609 13-43 DO YOU USE OR REFER TO TUBE SUBSTITUTION MATERIAL 609 13-43 DO YOU USE OR REFER TO TUBE SUBSTITUTION MATERIAL 609 13-43 DO YOU USE OR REFER TO TUBE SUBSTITUTION MATERIAL 609 13-43 DO YOU WORK MITH ELECTRON TUBE AMPLIFIERS OR CINCUITS 609 11-01 DO YOU WORK MITH ELECTRON TO PROVE ELECTRON 610 11-02 DO YOU PORTERIAL DO YOU PORTERIAL 611 DO YOU PORTERIAL DO YOU PORTERIAL 612 DO YOU PORTERIAL DO YOU PORTERIAL 613 DO YOU PORTERIAL DO YOU PORTERIAL 614 DO YOU PORTERIAL DO YOU PORTERIAL DO YOU PORTERIAL 615 DO YOU PORTERIAL DO YOU PORTERIAL DO YOU PORTERIAL 616 DO YOU PORTERIAL DO YOU PORTERIAL DO YOU PORTERIAL 617 DO YOU PORTERIAL DO Y		13-38 DO YOU USE OSCILLOSCOPES TO DETERNINE ELECTRON TU	30	100	63		25	33	0		2.6	35		
AS INPUT CAPACITANCE		13-34 DO YOU USE CHARACTERISTIC CURVES TO	2	0.9	45	45	0	0	a	•	~	S	0	
AS INPUT CAPECITANCE AS INPUT CAPECITANCE ASSINTANCE ASSINATOR TO APECITANCE BOD 100 100 100 100 100 100 100 100 100 10		13-40 DO YOU CALCULATE ANY ELECTRON TUBE CAPACITANCES SUC	0	a	33	13	0	o	0	7	7	0		
606 13-92 DO YOU USE OR REFER TO PIN NUMBERING SYSTEMS 607 13-93 DO YOU USE OR REFER TO PIN NUMBERING SYSTEMS 607 13-93 DO YOU USE OR REFER TO THE ENITTING SURFACE IN THE 607 13-93 DO YOU USE OR REFER TO TUBE SUBSTITUTION MATERIAL 608 13-94 DO YOU USE OR REFER TO TUBE SUBSTITUTION MATERIAL 609 JI-01 DO YOU WORK MITH ELECTRON TUBE AMPLIFIERS OR CINCUITS 609 JI-01 DO YOU WORK MITH ELECTRON TUBE AMPLIFIERS OR CINCUITS 610 JI-02 DO YOU DETERMINE THE CLASS OF OPERATION FOR ELECTRON 610 JI-03 DO YOU DETERMINE THE CLASS OF OPERATION FOR ELECTRON 610 JI-03 DO YOU DETERMINE THE CLASS OF OPERATION FOR ELECTRON 610 JI-03 DO YOU DETERMINE THE CLASS OF OPERATION FOR ELECTRON 610 JI-03 DO YOU DETERMINE THE CLASS OF OPERATION FOR ELECTRON 610 JI-03 DO YOU DETERMINE THE CLASS OF OPERATION FOR ELECTRON 610 JI-03 DO YOU DETERMINE THE CLASS OF OPERATION FOR ELECTRON 610 JI-03 DO YOU DETERMINE THE CLASS OF OPERATION FOR ELECTRON 610 JI-03 DO YOU DETERMINE THE CLASS OF OPERATION FOR ELECTRON	1	AS INPUT CAPACITANCE 5 13-41 DO YOU USE OF REFER TO TURE SOCKET	13	20	100	100	75		100		38	4	3.6	
607 13-43 DO 70U USE ON NEFER TO THE ENITTING SURFACE IN THE OPERATING TEPPERATURE OF THE ENITTING SURFACE IN THE OPERATING TEPPERATURE OF THE ENITTING SURFACE IN THE OPERATING TEPPERATURE OF THE ENITTING SURFACE IN THE OBS 13-49 DO 70U USE OF REFER TO TUBE SUBSTITUTION MATERIAL OS 31-41 DO 70U MORK WITH ELECTROM TUBE AMPLIFIERS OR CINCUITS OS 32 00 72 72 75 07 10D 42 43 40 35 OS 31-52 DO 70U MORK WITH ELECTROM TUBE AMPLIFIERS OR CINCUITS OS 31-52 DO 70U MORK WITH ELECTROM TUBE AMPLIFIERS OS 31-52 DO 70U MORK WITH ELECTROM TO 92 72 75 33 0 0 0 7 10 0 0 0 0 0 0 0 0 0 0 0 0 0 0		13-42 DO TOU USE OR REFER TO PIN NUMBERING	23	0	100	001	100	100	100	5.5	5.5	5.5		
ELECTRON TUBES TOU WORK ON 608 13-44 DO TOU USE OR REFER TO TUBE SUBSTITUTION MATERIAL 508 13-44 DO TOU USE OR REFER TO TUBE SUBSTITUTION MATERIAL 509 JI-01 DO TOU WORK WITH ELECTROM TUBE AMPLIFIERS OR CIRCUITS 509 JI-02 DO TOU NORWELLING TO THOUSE AMPLIFIERS OR CIRCUITS 510 JI-02 DO TOU DETERMINE THE CLASS OF OPERATION FOR ELECTRON 510 JI-02 DO TOU DETERMINE THE CLASS OF OPERATION FOR ELECTRON 510 JI-03 NO MALIFIERS IN ORDER TO TROUBLE SHOOT AMPLIFIER	9	13-43 DO TOU USE ON REFER TO THE TYPE OF MATERIAL OR T OPERATING SURFACE IN THE	0	20	52	52	0	0	0	ν.	,	0	•	
SOUTH AS MANUALS OF CHARTS OF TUBE AMPLIFIERS OF CIRCUITS 32 80 72 92 75 67 100 42 43 40 35 610 310 0 10 10 10 10 10 10 10 10 10 10 10 10		ELECTRON TURES YOU WORK ON	90	30	83		25	0	0			30		
IN TOUR PRESENT JUN SID JI-02 DO TOU DETERMINE THE CLASS OF OPERATION FOR ELECTRON 8 40 42 42 25 33 0 8 7 10 0 E TOUR AMPLIFIERS IN ORDER TO TROUBLESHOOT AMPLIFIER	-	JI-01 DO TOU MORK WITH ELECTRON TUBE AMPLIFIERS OR CIRCUIT	32	80	9.2	3.5	75		0	4.2	5	0.	35	
		JI TOUR TRESENT LOS THE CLASS OF OPERATION FOR ELFC	•	0	4 2		2.5		O	40	1	0		AMPLIFIERS

11-03 DO YOU TROUBLESHOOT OR REFAIR FARAFHASE AMPLIFIESS		SPC	SPC	SPC	SPC	SPC	SPC	SPC S				SPC	
10.00 YOU NEQUELESCOTO OR REPAIR COMPONDO-CONNECTED 10.00 YOU NEQUELESCOTO OR REPAIR DOWN TAKEN FROM THE	NY-1-5K	190	990	990	067	690	070				1	375	1
131-95 DO TOU TRUNDELESHOOT OF REFAIR POLICY MANLIFEERS 25 SO 55 SO 50 S	JI-03 DO YOU TROUBLESHOOT OR REPAIR PARAFHASE	1.1	20		10	25	0	100	9	61	10	•	
141-50 FOUNDALESHOOT OF REALER CORDECTION OF 20 0 5 0 0 0 10 11 17 20 0 0 0 0 10 11 17 20 0 0 0 0 10 10 17 17 10 17 10 17 10 10 10 10 10 10 10 10 10 10 10 10 10	J1-04 DO YOU TROUBLESHOOT OR REPAIR PUSH-PULL	52	80	e 8	83	25	0	100	21	21	20	7	
1, 1, 1, 1, 1, 1, 1, 1, 1, 1, 1, 1, 1,	JI-05 DO YOU THOUBLESHOOT OR REPAIR C	•	50	20	20	0	0	0	•	*	20	0	
A	JI-06 DO YOU TROUBLESHOOT OR REPAIR CA		9	5.8	5.0	50	33	100	6	17	25		
19 19 19 19 19 19 19 19	APPLIFIERS												
######################################	JI-07 DO YOU TROUBLESHOOT OR REPAIR DON'T KNOW	2	20	52	52		33	0	7	•	01	17	
14-20 B0 100 WORK WITH CATABORE-MAY TUBES 14-20 B0 100 WORK WORK WITH CATABORE-MAY TUBES 14-20 B0 100 WORK WORK WORK WORK WORK WORK WORK WORK	OF AMPLIFIER	-	-	-			-				1		
145-02 DO 1000 MORK WITH CAIMODE-RAY TURES 145-03 DO 100 USE OR NEFER TO THE CHRACTERISTICS OF BEAM 9 40 25 25 0 0 0 10 12 5 9 SECLAL PURB JEACH 1085 OF 100 USE OR NEFER TO THE CHRACTERISTICS OF BEAM 13 20 25 25 0 0 0 16 17 15 13 ELECTRON TUBE ARE USED 145-03 DO 100 USE OR NEFER TO THE CHRACTERISTICS OF DEFAILOR 13 20 25 25 0 0 0 0 16 17 15 13 ELECTRON TUBE ARE USED 145-05 DO 100 USE OR NEFER TO THE CHRACTERISTICS OF DEFAILOR 5 34 100 100 100 100 100 100 100 100 100 10	JZ-01 DO YOU WORK WITH GAS TUBES (HOT CATHODE OR	32	9	76	45	52	33	D	37	36	35	30	
124-03 OF VOU USE OF REFER TO THE CHARACTERISTICS OF GEAN 125-03 OF VOU USE OF REFER TO THE CHARACTERISTICS OF GEAN 126-04 OF VOU USE OF REFER TO THE CHARACTERISTICS OF GEAN 126-05 OF VOU USE OF REFER TO THE CHARACTERISTICS OF 32 0F 03 33 0F 05 0F 05 16 17 15 13 ELECTRONS TIDES 126-05 OF VOU USE OF REFER TO THE CHARACTERISTICS OF 34 100 100 100 75 67 100 52 55 52 126-05 OF VOU USE OF REFER TO THE PRINCIPLES OF OFERATION OF 34 100 100 100 75 67 100 52 55 55 52 126-05 OF VOU USE OF REFER TO THE PRINCIPLES OF OFERATION OF 34 100 100 100 75 67 100 52 55 55 52 126-05 OF VOU USE OF REFER TO THE PRINCIPLES OF OFERATION OF 34 100 100 100 75 67 100 52 55 55 52 126-05 OF VOU USE OF REFER TO THE PRINCIPLES OF OFERATION OF 34 100 100 100 75 67 100 52 55 55 52 126-05 OF VOU USE OF REFER TO THE PRINCIPLES OF OFERATION OF 34 100 100 100 75 67 100 52 55 54 55 126-05 OF VOU USE OF REFER TO THE PRINCIPLES OF OFERATION OF 34 100 100 100 75 67 100 52 55 54 55 126-05 OF VOU USE OF REFER TO THE PRINCIPLES OF CATHODE-RAY TUBES 11 00 54 55 0F 07 100 100 100 100 100 100 100 100 100	417		90	42	65		13	100	0.4	23			
PAGEST 1985 ARE USED 13-04 TO YOU TROUBLESHOOT OF REFAIR CIRCUITS IN WHICH BEAM 13-05 TO YOU USE OF REFER TO THE CHARCTERISTICS OF 13-05 TO YOU USE OF REFER TO THE CHARCTERISTICS OF 13-05 TO YOU USE OF REFER TO THE CHARCTERISTICS OF 13-05 TO YOU USE OF REFER TO THE PRINCIPLES OF OFERALTON OF 13-05 TO YOU USE OF REFER TO THE PRINCIPLES OF OFERALTON OF 13-05 TO YOU USE OF REFER TO THE PRINCIPLES OF OFERALTON OF 13-05 TO YOU USE OF REFER TO THE PRINCIPLES OF OFERALTON OF 13-05 TO YOU USE OF REFER TO THE PRINCIPLES OF OFERALTON OF 13-05 TO YOU USE OF REFER TO THE PRINCIPLES OF OFERALTON OF 13-05 TO YOU USE OF REFER TO THE PRINCIPLES OF OFERALTON OF 13-05 TO YOU USE OF REFER TO THE PRINCIPLES OF OFERALTON OF 13-05 TO YOU USE OF REFER TO THE PRINCIPLES OF OFERALTON OF 13-05 TO YOU USE OF REFER TO THE PRINCIPLES OF OFERALTON OF 13-05 TO YOU USE OF REFER TO THE PRINCIPLES OF OFERALTON OF 13-05 TO YOU USE OF REFER TO THE PRINCIPLES OF OFERALTON OF 13-05 TO YOU USE OF REFER TO THE PRINCIPLES OF OFERALTON OF 13-05 TO YOU USE OF REFER TO THE PRINCIPLES OF OFERALTON OF 13-05 TO YOU USE OF REFER TO THE PRINCIPLES OF OFERALTON OF 13-05 TO YOU USE OF REFER TO THE PRINCIPLES OF OFERALTON OF 13-05 TO YOU USE OF REFER TO THE PRINCIPLE OF 13-05 TO YOU USE OF REFER TO THE PRINCIPLE OF 13-05 TO YOU USE OF REFER TO THE PRINCIPLE OF 13-05 TO YOU USE OF REFER TO THE PRINCIPLE OF 13-05 TO YOU USE OF REFER TO THE PRINCIPLE OF 13-05 TO YOU USE OF REFER TO THE PRINCIPLE OF 13-05 TO YOU USE OF REFER TO THE PRINCIPLE OF 13-05 TO YOU USE OF REFER TO THE PRINCIPLE OF 13-05 TO YOU USE OF REFER TO THE PRINCIPLE OF 13-05 TO YOU USE OF REFER TO THE PRINCIPLE OF 13-05 TO YOU USE OF REFER TO THE PRINCIPLE OF 13-05 TO YOU USE OF REFER TO THE PRINCIPLE OF 13-05 TO YOU USE OF THE PRINCIPLE OF 13-05 TO YOU WE WANTED THE PRINCIPLE OF	JZ-03 00 YOU USE OF REFER TO THE CHARACTERISTICS OF BEA	•	0	25	25		0		01	12		•	
13.4-09 FOUR TROUBLESHOOT OR REPAIR CIRCUITS IN WHICH BEAM 13 20 25 25 5 0 0 0 14 17 15 13 ELECTRON TIPE ARE USED. 14-16A ARE ONLY USE OR REFER TO THE CHARACTERISTICS OF 32 00 3 3 3 0 0 0 0 3 9 3 3 0 43 14-16A ENGLOSMY CONTROL ONLY OF THE CHARACTERISTICS OF 32 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	POWER TUBES					,		,				SPECIAL PURP	0
THE REPORT TO USE OF REFER TO THE CHARACTERISTICS OF 37 80 83 83 0 0 0 53 82 55 52 THE ARABONS OF CHARACTERISTICS OF OPERATION OF 34 100 100 100 75 47 100 52 55 52 THE ARABONS OF CHARACTERISTICS OF OPERATION OF 34 100 100 100 75 47 100 52 55 52 THE ARABONS OF CHARACTERISTICS OF OPERATION OF 34 100 100 100 75 47 100 52 55 45 55 THE ARABONS OF CHARACTERISTICS OF OPERATION OF 34 100 100 100 75 47 100 52 55 45 55 THE ARABONS OF CHARACTERISTICS OF OPERATION OF 34 100 100 100 75 47 100 52 55 65 THE ARABONS OF CHARACTERISTICS OF OPERATION OF 34 100 100 100 75 47 100 52 55 65 THE ARABONS OF CHARACTERISTICS OF OPERATION OF 34 100 100 100 100 100 100 100 100 100 10	J2-04 DO YOU TROUBLESHOOT OR REPAIR CIRCUITS IN WHICH	13	5 0	25	35	0	0	0	• 1	11	15	~	ES
12-05 DO TOU FORDUSE SHOOT OF REPAIR CIRCUITS IN WHICH 13-05 DO TOU INCOMESSAND OF REPAIR CIRCUITS IN WHICH 13-05 DO TOU INCOMESSAND OF REPAIR CIRCUITS IN WHICH 13-05 DO TOU USE OF REFER TO THE PRINCIPLES OF OPERATION OF 24 100 100 75 47 100 52 55 45 52 13-05 DO TOU USE OF REFER TO THE PRINCIPLES OF OPERATION OF 24 00 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	POWEN TUBES ARE UNED TO THE CLABACTERISTICS	3.3	9			•	c	4	0.		00		
14-04-06 O'OU TROUGLESHOOT OR REPAIR CIRCUITS IN WHICH 14-04-06 O'OU TROUGLESHOOT OR REPAIR CIRCUITS IN WHICH 14-04-06 O'OU TROUGLESHOOT OR REPAIR CIRCUITS OF OPERATION OF 15-04-06 O'OU ON TROUGLESHOOT OR REPAIR TOBES 15-04-06 O'OU O'S OR REFER TO THE PRINCIPLES OF OPERATION OF 15-04-06 O'OU O'S OR REFER TO THE PRINCIPLES OF OPERATION OF 15-04-06 O'OU O'S OR REFER TO THE PRINCIPLES OF OPERATION OF 15-04-06 O'OU O'S OR REFER TO THE PRINCIPLES OF OPERATION OF 15-04-06 O'OU O'S OR REFER TO THE PRINCIPLES OF OPERATION OF 15-04-06 O'OU O'S OR REFER TO THE PRINCIPLES OF OPERATION OF 15-04-06 O'OU O'S OR REFER TO THE PRINCIPLES OF OPERATION OF 15-04-06 O'OU O'S OR REFER TO THE PRINCIPLES OF OPERATION OF 15-04-06 O'OU O'S OR REFER TO THE PRINCIPLES OF OPERATION OF 15-04-06 O'OU O'S OR REFER TO THE PRINCIPLES OF OPERATION OF 15-04-06 O'OU O'S OR REFER TO THE PRINCIPLES OF OPERATION OF 15-04-06 O'OU O'S OR REFER TO THE PRINCIPLES OF OPERATION OF 15-04-06 O'OU O'S OR REFER TO THE PRINCIPLES OF OPERATION OF 15-04-06 O'OU O'S OR REFER TO THE PRINCIPLES OF OPERATION OF 15-04-06 O'OU O'S OR REFER TO THE REPORT OF OPERATION OF 15-04-06 O'OU O'S OR REFER TO THE REPORT OF OPERATION OF 15-04-06 O'OU O'S OR REFER TO THE REPORT OF OPERATION OF 15-04-06 O'OU O'S OR REFER TO THE REPORT OF OPERATION OF 15-04-06 O'OU O'S OR REFER TO THE R	TAKARAMAN SANGALAN TAKARAMAN TAKARAM	•	3	3	2	0	,	5				•	
THY RATROWS ARE USE. THY RATROWS ARE USES. THY RAT	OR REPAIR CIRCUITS IN	67	9	92	9.2	0	0	0	53	25	55	5.2	
Jacob Boy Volu USE OR REFER TO THE PRINCIPLES OF OPERATION OF 34 100 100 15 67 100 55 95 45 52 Jacob Boy Volu USE OR REFER TO THE PRINCIPLES OF OPERATION OF 28 60 83 83 25 0 100 35 38 45 52 Jacob Boy Volu USE OR REFER TO THE PRINCIPLES OF OPERATION OF 19 80 42 42 25 0 100 35 38 35 45 52 LELECTROAGNETIC CELECTION SYSTEMS OF CANDOE—RAT TUBES Jacob Boy Volu USE OR REFER TO THOSPHOR SCREENS Jacob Boy VOLU USE OR REFER TO THOSPHOR SCREENS Jacob Boy Volu USE OR REFER TO THOSPHOR SCREENS Jacob Boy Volu USE OR THOSPHOR SCREENS Jacob Boy VOLU USE OR THOSPHOR SCREENS Jacob Boy VOLU USE OR THOSPHOR TAXES ON THOSPHOR SCREENS Jacob Boy VOLU USE OR THOSPHOR TAXES ON THOSPHOR SCREENS Jacob Boy VOLU USE OR THOSPHOR TAXES ON THOSPHOR SCREENS Jacob Boy VOLU USE OR THOSPHOR TAXES ON THOSPHOR SCREENS Jacob Boy VOLU USE OR THOSPHOR TAXES ON TH	THYRATRONS ARE USED												
Second bot you use of refer to the Principles of operation of 20 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	SINCHES OF CATHODES AT THE PRINCIPLES OF OPERATION	74	100	00	001		4	100	25	6	4	25	
CRECTROMAGNETIC DEFLECTION SYSTEMS OF CATHODE—RAY TUBES CREATION OF 19 60 42 42 25 0 100 35 38 30 39	12-08 DO YOU USE OR BEEFE TO THE PRINCIPLES OF OPERATION	2.8	08	8 3	8 3		0	100	4.2	0	2 4	**	
FEET FOR THE PRINCIPLES OF OPERATION OF 19 60 42 42 25 0 100 35 36 30 39	ELECTROMAGNETIC DEFLECTION SYSTEMS OF CATHODE-RAY TUBES	:	;		3							:	
ELECTROSTATIC DEFLECTION SYSTEMS OF CATHODE-RAY TUBES LICRT 10 100 40 45 67 50 67 05 52 45 52 J2-11 00 700 USE OR REFER TO REDGETRON OPTICS 11 1 20 58 58 7 10 10 10 22 J2-12 00 700 USE OR REFER TO REGETRON OPTICS 11 1 40 58 58 0 0 0 27 29 52 J2-13 00 700 USE OR REFER TO RECETRON OPTICS 11 1 40 58 58 0 0 0 27 29 25 J2-14 00 700 USE OR REFER TO REGETRON OPTICS 11 60 58 58 0 0 0 27 29 25 J2-15 00 700 USE OR REFER TO REGETRO REGETRON OPTICS 11 60 58 58 0 0 0 27 29 25 J2-16 00 700 USE OR REFER TO REGETRO REGETRON OPTICS J2-16 00 700 USE OR REFER TO REGETRO REGETRON OPTICS J2-16 00 700 USE OR REFER TO REGETRO REGETRON OPTICS J2-16 00 700 USE OR REFER TO REGETRON OPTICS J2-16 00 700 USE OR REFER TO REGETRON OPTICS J2-16 00 700 USE OR REFER TO REGITRON OPTICS J2-16 00 700 USE OR REFER TO REGETRON OPTICS J2-16 00 700 USE OR REFER TO REGETRON OPTICS J2-16 00 700 USE OR REFER TO REGETRON OPTICS J2-16 00 700 USE OR REFER TO REGETRON OPTICS J2-16 00 700 USE OR REFER TO REGETRON OPTICS J2-16 00 700 USE OR REFER TO REGETRON OPTICS J2-16 00 700 USE OR REFER TO REGITRON OPTICS J2-16 00 700 USE OR REFER TO REGITRON OPTICS J2-16 00 700 USE OR REFER TO REGITRON OPTICS J2-16 00 700 USE OR REFER TO REGITRON OPTICS J2-16 00 700 USE OR REFER TO REGITRON OPTICS J2-16 00 700 USE OR REFER TO REGITRON OPTICS J2-16 00 700 USE OR REFER TO REGITRON OPTICS J2-16 00 700 USE OR REFER TO REGITRON OPTICS J2-17 00 TO	J2-09 DO YOU USE OR REFER TO THE PRINCIPLES OF OPERATION	•	0	*	42	25	0	100	35	38	30	39	
CRITION CONTRICT CRITICAL	ELECTROSTATIC DEFLECTION SYSTEMS OF CATHODE-RAY TUBES												
J2-11 DO TOU USE OR REFER TO RUGAGAGGGATINGS J2-12 DO TOU USE OR REFER TO RUGAGAGGGATINGS J2-13 DO TOU USE OR REFER TO RUGAGAGGGATINGS J2-13 DO TOU USE OR REFER TO RUGAGAGGGATINGS J2-14 DO TOU USE OR REFER TO RUGAGAGGGATINGS J2-15 DO TOU USE OR REFER TO RUGAGAGGGGATINGS J2-16 DO TOU USE OR REFER TO RUGAGAGGGGAGGGGGGGGGGGGGGGGGGGGGGGGGGGG	12-10 DO YOU USE OR SEPTER TO BUSEBUSE	0	00		.,	4	.,		0	23		63	
JZ=12 DO YOU USE OR REFER TO PERSISTENCE JZ=13 DO YOU USE OR REFER TO PERSISTENCE JZ=14 DO YOU USE OR REFER TO PERSISTENCE JZ=15 DO YOU USE OR REFER TO ELECTRON OPTICS JZ=15 DO YOU USE OR REFER TO FLOATINGESCENCE JZ=16 DO YOU USE OR REFER TO FLOATINGESCENCE JZ=17 DO YOU USE OR REFER TO THE WITH TRANSMIT OR RECEIVE SYSTEMS JZ=17 DO YOU PERFORM TASKS ON REACTANCE MODULATORS JZ=17 DO YOU PERFORM TASKS ON REACTANCE MODULAT	J2-11 DO YOU USE OR REFER TO AGUADAG C	: =	0		33	200	7	o c	9		0	22	
J2-13 DO YOU USE DR REFER TO PERSISTENCE J2-13 DO YOU USE DR REFER TO DECAT TIMES J2-14 DO YOU USE DR REFER TO DECAT TIMES J2-15 DO YOU USE DR REFER TO DECAT TIMES J2-15 DO YOU USE DR REFER TO DECAT TIMES J2-15 DO YOU USE DR REFER TO PHOSPRRESCRICE J2-15 DO YOU USE DR REFER TO PHOSPRRESCRICE J3-01 DO YOU USE DR REFER TO PHOSPRRESCRICE J3-01 DO YOU USE DR REFER TO PHOSPRRESCRICE J3-01 DO YOU USE DR REFER TO PHOSPRRESCRICE J3-02 DO YOU DE DR ON TRANSHIT OR RECEIVE SYSTEMS IN YOUR TO	J2-12 DO YOU USE OR REFER TO ELECTRON	=	20	29	2.8	0	0		12	20	0	22	
12-14 TO YOU USE ON REFER TO DECAY TIMES 11 60 58 56 0 0 0 27 26 20 21 20 0 12 27 26 30 17 24-15 DO YOU USE ON REFER TO FLOOPRESCENCE 11 60 53 53 50 72 26 30 17 26 30 13 2-15 DO YOU USE ON REFER TO FLOOPRESCENCE 13 60 100 100 100 100 100 10 10 10 10 10 10	JZ-13 DO YOU USE OR REFER TO	=	9	58	5.8	25	33		99	55	09	5.2	
12-15 DO YOU USE OR REFER TO FLUORESCENCE 12-15 DO YOU USE OR REFER TO FLUORESCENCE 12-15 DO YOU USE OR REFER TO PROSPHORESCENCE 13-01 DO YOU USE OR REFER TO PROSPHORESCENCE 13-01 DO YOU USE OR REFER TO PROSPHORESCENCE 13-02 DO YOU USE OR REFER TO PROSPHORESCENCE 13-03 DO YOU USE OR REFER TO PROSPHORESCENCE 13-03 DO YOU USE OR REFER TO PROSPHOREY FIRS 13-04 DO YOU PERFORM TASKS ON FREQUENCY MIXERS 13-05 DO YOU PERFORM TASKS ON RECEIVE SYSTEMS 13-05 DO YOU USE OR REFER TO THE MITERARDAY MIXERS 13-05 DO YOU PERFORM TASKS ON RECEIVE SYSTEMS 13-05 DO YOU PERFORM TARMSMIT OR	J2-14 DO YOU USE OR	=	09	58	2.8	0	0		27	58	25	22	
J2-16 DO YOU USE OR REFER TO PHOSPHORESCENCE J3-01 DO YOU WORK ON TRANSHIT OR RECEIVE SYSTEMS IN YOUR J3-02 DO YOU WORK ON TRANSHIT OR RECEIVE SYSTEMS IN YOUR J3-03 DO YOU PERFORM ISSKS ON FREQUENCY CONVERTERS J3-03 DO YOU PERFORM ISSKS ON FRECUENCY CONVERTERS J3-03 DO YOU PERFORM ISSKS ON FRECUENCY CONVERTERS J3-03 DO YOU PERFORM ISSKS ON FRECUENCY CONVERTERS J3-04 DO YOU PERFORM ISSKS ON RECEIVE SYSTEMS MANUAL DO YOU WORK ON AN TRANSMIT OR RECEIVE SYSTEMS MANUAL DO YOU WORK ON AN TRANSMIT OR RECEIVE SYSTEMS MANUAL DO YOU WERE WORLD WAS AN TRANSMIT OR RECEIVE SYSTEMS MANUAL DO YOU WERE WORLD WAS AN TRANSMIT OR RECEIVE SYSTEMS MANUAL DO YOU WERE WORLD WAS AN TRANSMIT OR RECEIVE SYSTEMS MANUAL DO YOU WERE WORLD WAS AN TRANSMIT OR RECEIVE SYSTEMS MANUAL DO YOU WERE WORLD WAS AN TRANSMIT OR RECEIVE SYSTEMS MANUAL DO YOU WERE WORLD WAS AN TRANSMIT OR RECEIVE SYSTEMS MANUAL DO YOU WERE WORLD WAS AN TRANSMIT OR RECEIVE SYSTEMS MANUAL DO YOU WERE WORLD WAS AN TRANSMIT OR RECEIVE SYSTEMS MANUAL DO YOU WERE WORLD WAS AN TRANSMIT OR MECEIVE SYSTEMS MANUAL DO YOU WERE WORLD WAS AN TRANSMIT OR WELLING WAS AN TRANSMIT OR WAS AN TRANSMIT OR WELLING WAS AN TRANSMIT OR WAS AN TRANSMIT OR WAS AN TRANSMIT OR WAS AN TRANSMIT	J2-15 DO YOU USE ON REFER TO FLUORESC	=	09	13	13	a	0		27	26	30	17	
J3-01 DO 70U MORK ON TRANSHIT OR RECEIVE SYSTEMS IN YOUR %3 80 100 100 75 67 100 76 74 80 74 PRESENT JOB PRESENT JOB J3-03 DO 70U BERFORM IASKS ON FREQUENCY CONVERTERS J3-03 DO 70U BERFORM IASKS ON FREQUENCY MIXERS J3-04 DO 70U DE, OR REFER TO THE METEROLENGE SIGNALS J3-04 DO 70U DE, OR REFER TO THE METEROLENGE SIGNALS J3-04 DO 70U DE, OR REFER TO THE METEROLENGE SIGNALS J3-04 DO 70U DE, OR REFER TO THE METEROLENGE MODULATION, J3-04 DO 70U DE, OR REFER TO THE METEROLENGE MODULATION, J3-04 DO 70U DE, OR REFER TO THE METEROLENGE MODULATION, J3-04 DO 70U DE, OR REFER TO THE METEROLENGE MODULATION, MISSENT JOB KI-03 DO 70U MONK ON AN TRANSMIT OR RECEIVE SYSTEMS KI-03 DO 70U LINFECT AN TRANSMIT OR RECEIVE SYSTEMS KI-03 DO 70U LINFECT AN TRANSMIT OR RECEIVE SYSTEMS KI-04 DO 70U LINFECT AN TRANSMIT OR RECEIVE SYSTEMS KI-04 DO 70U LINFECT AN TRANSMIT OR RECEIVE SYSTEMS KI-05 DO 70U LINFECT AN TRANSMIT OR RECEIVE SYSTEMS KI-04 DO 70U LINFECT AN TRANSMIT OR RECEIVE SYSTEMS KI-04 DO 70U LINFE OR DE TOWN ON A LOUGH OF TOWN OR TOWN OR THE MODULATION OF TOWN OR TO	J2-16 DO YOU USE OR REFER TO PHOSPHORESCE	15	0	20	50	25	13	0	12	26	30	13	
J3-02 DO YOU PERFORM TASKS ON FREQUENCY CONVERTERS J3-03 DO YOU PERFORM TASKS ON FREQUENCY MIXERS J3-03 DO YOU PERFORM TASKS ON FRECUENCY MIXERS J3-03 DO YOU DE PFORM TASKS ON FRECUENCY MIXERS J3-04 DO YOU PERFORM TASKS ON RECEIVE SYSTEMS J3-04 DO YOU PERFORM TASKS ON RECEIVE SYSTEMS MITHOUR MOON ON AN TRANSMIT OR RECEIVE SYSTEMS MITHOUR MOON ON AN TRANSMIT OR RECEIVE SYSTEMS MITHOUR MOON ON AN TRANSMIT OR RECEIVE SYSTEMS MITHOUR MOON ON THANSMIT OR RECEIVE SYSTEMS MITHOUR MOON TOU ALIGH OR ADJUST AN TRANSMIT OR RECEIVE SYSTEMS MITHOUR MOON TOU ALIGH OR ADJUST AN TRANSMIT OR RECEIVE SYSTEMS MITHOUR MICHAEL MAN TRANSMIT OR RECEIVE SYSTEMS MITHOUR MOON TOU ALIGH OR ADJUST AND TRANSMIT OR RECEIVE SYSTEMS MITHOUR MOON TOU ALIGH OR ADJUST AND THANSMIT OR MECHIVE SYSTEMS MITHOUR MOON TOUR MICHAEL MAN TRANSMIT OR MECHIVE SYSTEMS MITHOUR MOON TOUR MICHAEL MAN TRANSMIT OR MECHIVE SYSTEMS MITHOUR MOON TOUR MICHAEL MAN TRANSMIT OR MECHIVE SYSTEMS MITHOUR MOON TOUR MICHAEL MAN TRANSMIT OR MECHIVE SYSTEMS MITHOUR MAN TANK THAN THAN THAN THAN THAN THAN THAN THAN	PRESENT JOS	?	9	100	100	75	67	100	36	*	0	74	
J3=03 DG YOU PERFORM TASKS ON FRECEIVE SYSTEMS J3=04 DG YOU USE OF REFER TO THE METEROURNEY MIXERS J3=04 DG YOU USE OF REFER TO THE METEROURNES 11 90 92 92 25 0 100 26 33 10 30 DEMONITATION. J4=04 DG YOU PERFORM TASKS ON RECEIVE SYSTEMS J4=04 DG YOU PERFORM TASKS ON MODULATED OSCILLATORS K1=05 DG YOU PERFORM TASKS ON MODULATED OSCILLATORS K1=05 DG YOU PERFORM TASKS ON MODULATED OSCILLATORS K1=05 DG YOU MONK ON AN TRANSMIT OR RECEIVE SYSTEMS K1=05 DG YOU LEAM AN TRANSMIT OR RECEIVE SYSTEMS K1=05 DG YOU CLEAM AN TRANSMIT OR RECEIVE SYSTEMS K1=05 DG YOU CLEAM AN TRANSMIT OR RECEIVE SYSTEMS K1=04 DG YOU CLEAM AN TRANSMIT OR RECEIVE SYSTEMS K1=04 DG YOU CLEAM AN TRANSMIT OR RECEIVE SYSTEMS K1=05 DG YOU CLEAM AN TRANSMIT OR RECEIVE SYSTEMS K1=04 DG YOU CLEAM AN TRANSMIT OR RECEIVE SYSTEMS K1=04 DG YOU CLEAM AN TRANSMIT OR RECEIVE SYSTEMS K1=05 DG YOU CLEAM AN TRANSMIT OR RECEIVE SYSTEMS K1=05 DG YOU CLEAM AN TRANSMIT OR RECEIVE SYSTEMS K1=05 DG YOU CLEAM AN TRANSMIT OR RECEIVE SYSTEMS K1=05 DG YOU CLEAM AN TRANSMIT OR RECEIVE SYSTEMS K1=05 DG YOU CLEAM AN TRANSMIT OR RECEIVE SYSTEMS K1=05 DG YOU CLEAM AN TRANSMIT OR RECEIVE SYSTEMS K1=05 DG YOU CLEAM AN TRANSMIT OR RECEIVE SYSTEMS K1=05 DG YOU CLEAM AN TRANSMIT OR RECEIVE SYSTEMS K1=05 DG YOU CLEAM AN TRANSMIT OR RECEIVE SYSTEMS K1=05 DG YOU CLEAM AN TRANSMIT OR RECEIVE SYSTEMS K1=05 DG YOU CLEAM AN TRANSMIT OR RECEIVE SYSTEMS K1=05 DG YOU CLEAM AN TRANSMIT OR RECEIVE SYSTEMS K1=05 DG YOU CLEAM AN TRANSMIT OR RECEIVE SYSTEMS	J3-02 DO YOU PERFORM TASKS ON FREQUENCY	25	09	001	100	25	0		5.5	31	25		(0
J3-64 DO YOU USE OR REFER TO THE METERODYNING OF SIGNALS 10 40 42 42 25 0 100 26 33 10 30 10 YOUR WORK WITH TRANSMIT OR RECEIVE SYSTEMS 10 YOU PERFORM TASKS ON MODULATED OSCILLATORS 10 40 75 75 25 0 100 40 40 38 45 39 10 10 10 10 10 10 10 10 10 10 10 10 10 1	J3-03 DO YOU PERFORM TASKS ON FREQUENCY	28	9.0	100	100	50	33		47	60	45		₹,
IN YOUR WORK WITH TRANSHIT OR RECEIVE SYSTEMS 13-06 DO YOU PERFORM TASKS ON REACTANCE MODULATORS 4.3-06 DO YOU PERFORM TASKS ON RECEIVE SYSTEMS 14-01 DO YOU PERFORM TASKS ON RECEIVE SYSTEMS IN YOUR O 40 25 25 0 100 40 38 45 39 K1-01 DO YOU WORK ON AN TRANSMIT OR RECEIVE SYSTEMS K1-02 DO YOU LIMPECT AN TRANSMIT OR RECEIVE SYSTEMS C1-03 DO YOU LIMPECT AN TRANSMIT OR RECEIVE SYSTEMS C1-04 DO YOU CLEAM AN TRANSMIT OR RECEIVE SYSTEMS C1-04 DO YOU CLEAM AN TRANSMIT OR RECEIVE SYSTEMS C1-05 DO YOU CLEAM AN TRANSMIT OR RECEIVE SYSTEMS C1-05 DO YOU CLEAM AN TRANSMIT OR RECEIVE SYSTEMS C1-05 DO YOU CLEAM AN TRANSMIT OR RECEIVE SYSTEMS C1-05 DO YOU CLEAM AN TRANSMIT OR RECEIVE SYSTEMS C1-05 DO YOU CLEAM AN TRANSMIT OR RECEIVE SYSTEMS C1-05 DO YOU CLEAM AN TRANSMIT OR RECEIVE SYSTEMS C1-05 DO YOU CLEAM AN TRANSMIT OR RECEIVE SYSTEMS C1-05 DO YOU CLEAM AN TRANSMIT OR RECEIVE SYSTEMS C1-05 DO YOU CLEAM AN TRANSMIT OR RECEIVE SYSTEMS C1-05 DO YOU CLEAM AN TRANSMIT OR RECEIVE SYSTEMS C1-05 DO YOU CLEAM AN TRANSMIT OR RECEIVE SYSTEMS C1-05 DO YOU CLEAM AN TRANSMIT OR RECEIVE SYSTEMS C1-05 DO YOU CLEAM AN TRANSMIT OR RECEIVE SYSTEMS C1-05 DO YOU CLEAM AN TRANSMIT OR RECEIVE SYSTEMS C1-05 DO YOU CLEAM AN TRANSMIT OR RECEIVE SYSTEMS	J3-04 DO YOU USE OR REFER TO THE METERODYNING OF SIGNAL	=	0.	42	4.2	25	0	100	92	33	01		,
J3=05 DO TOU PERFORM TASKS ON REACEMODULATORS 4 20 42 42 50 33 100 15 12 20 7 13-06 DO TOU PERFORM TASKS ON MEDILATORS 13-06 DO TOU PERFORM TASKS ON MEDILATED OSCILLATORS 13-06 DO TOU PERFORM TASKS ON MECETIVE STSTEMS IN TOUR 0 40 25 25 0 0 0 0 1 21 21 20 26 RI=02 DO TOU INSPECT AN TRANSMIT OR RECEIVE STSTEMS 0 40 33 33 0 0 0 10 7 15 7 20 22 AM RI=03 DO TOU LEAM AN TRANSMIT OR RECEIVE STSTEMS 0 20 33 33 0 0 0 10 7 15 7 20 22	IN TOUR HORK MITH TRANSMIT OR RECEIVE S			,					,				
J3-06 DO YOU PERFORM TASKS ON MODULATED OSCILLATORS K1-01 DO YOU WONK ON AN TRANSMIT OR RECEIVE SYSTEMS IN YOUR O 40 25 25 0 0 0 21 21 20 26 PRESENT JOB K1-02 DO YOU LIEME AT TRANSMIT OR RECEIVE SYSTEMS K1-03 DO YOU CLEAM AN TRANSMIT OR RECEIVE SYSTEMS K1-04 DO YOU CLEAM AN TRANSMIT OR RECEIVE SYSTEMS K1-04 DO YOU ALIGM OR ADJUST AN TRANSMIT OR RECEIVE SYSTEMS K1-04 DO YOU ALIGM OR ADJUST AN TRANSMIT OR RECEIVE SYSTEMS	JA-US DO TOU PERFORM TASKS ON REACTANCE	9	50	45	45	20	33		2	2	50	6	
K1=01 DO 70U WORK ON AN TRANSMIT OR RECEIVE SYSTEMS IN YOUR O 40 25 25 0 0 0 21 21 20 26 PRESENT JOB K1=02 DO 70U INSPECT AN TRANSMIT OR RECEIVE SYSTEMS K1=03 DO 70U CLEAM AN TRANSMIT OR RECEIVE SYSTEMS K1=04 DO 70U CLEAM AN TRANSMIT OR RECEIVE SYSTEMS K1=04 DO 70U ALIGM OR ADJUST AN TRANSMIT OR RECEIVE SYSTEMS K1=04 DO 70U ALIGM OR ADJUST AN TRANSMIT OR RECEIVE SYSTEMS K1=04 DO 70U ALIGM OR ADJUST AN TRANSMIT OR RECEIVE SYSTEMS K1=04 DO 70U ALIGM OR ADJUST AN TRANSMIT OR RECEIVE SYSTEMS	J3-06 DO YOU PERFORM TASKS ON MODULATED OSCILLATORS		40	75	75	25	0	-	0	38	45	39	
KI-02 DO YOU INSPECT AM TRANSMIT OR RECEIVE STSTEMS 0 40 33 33 0 0 0 16 17 20 22 AN KI-03 DO YOU CLEAM AM TRANSMIT OR RECEIVE STSTEMS 0 20 33 33 0 0 0 10 7 15 9 AN KI-04 DO YOU CLEAM AM TRANSMIT OR RECEIVE STSTEMS 0 20 33 33 0 0 0 18 17 20 22	PERCENT TO	0	0		52	a	0	o	51	21	20	26	
KI-03 DO YOU CLEAM AN TRAMSMIT OR RECEIVE SYSTEMS KI-04 DO YOU ALIGN OR ADJUST AN TRAMSMIT OR RECEIVE SYSTEMS O 20 33 33 0 0 0 18 17 20 22	KI-DZ DO TOU INSPECT AM TRAMSMIT OR RECEIVE	0	0		33	0	0	0	8	17	20	2	
XI-04 DO YOU ALIGM OR ADJUST AM TRANSMIT OR RECEIVE SYSTEMS O 20 33 33 0 0 0 18 17 20 2	KI-03 DO YOU CLEAM AN TRANSMIT OR RECEIVE SY	0	20		33	0	0	0	01	1	5	A AM	
	XI-04 DO TOU ALIGN OR ADJUST AM TRANSMIT OR RECEIVE SYSTEM	0	20		33	0	a	a	18	17	20	22	

MBRS RESPONDING *YES* BY SELECTED GRPS

GPSH48 PAGE

steh

5 P C

22

SPC 073 2 2 11 0 000000000 0000000 * 7 0 1 5 PC 00 43 0 000000000 2 0000000 S ~ 21 13 5 PC 00 0 000000000 0 odododod 0 a 0 0000 SPC O 0 0 0 2222 00 0 0 000000000 0 00000000 0 a 24 0 25 25 25 25 25 25 25 SPC 067 33 33885733 33 33 33 24 52 2 4 5 5 990 107 107 3.3 2 × 0 0 0 0 0 0 33 2 52 SPC 065 0 0 a a 20 2200000 0 0 0 0000 SPC 044 NO 1-24 DO YOU USE OR REFER TO SQUARE LAW DISTORTION
1-25 DO YOU USE OR REFER TO CO-CHANNEL INTERFERENCE
1-25 DO YOU USE OR REFER TO INAGE FREQUENCES IN RECEIVERS
1-25 DO YOU USE OR REFER TO SIGNAL TO INAGE RATIOS OR
1-27 DO YOU. OR RECEIVE SYSTEMS OR RECEIVE REMEMBER WHICH AM STASE Z REFER TO FREQUENCY STABILIZATION SH KI-27 DO YOU TRACE SIGNALS OR CURRENT PATHS THROUGH AN TRANSMITTER SCHEMATIC DIAGRAMS
KI-28 DO YOU TRACE SIGNALS OR CURRENT PATHS THROUGH AM SELECTIVITY OF RECEIVERS
SELECTIVITY OF RECEIVERS
ZND MARMONIC DISCORTION
SAMPASS DISTORTION RECEIVER SCHEMATIC DIAGRAMS 2-01 DO YOU MORK MITH FM TRANSMIT OF RECEIVE SYSTEMS AM TRANSMIT OR PECEIVE TRANSMIY OR RECEIVE DO YOU INSPECT FM TRANSMIT OR RECEIVE SYSTEMS DO YOU CLEAM FM TRANSMIT OR RECEIVE SYSTEMS DO YOU ALIGM FM TRANSMIT OR RECEIVE SYSTEMS DO YOU TROUBLESHOOT TO FM TRAMSMIT OR RECEIVE DO YOU PERFORM TASKS ON RF DSCILLATORS
DO YOU PERFORM TASKS ON RF AMPLIFIERS
DO YOU PERFORM TASKS ON POWER AMPLIFIERS
DO YOU PERFORM TASKS ON LOCAL OSCILLATORS
DO YOU PERFORM TASKS ON LOCAL OSCILLATORS
DO YOU PERFORM TASKS ON DEFECTORS
DO YOU PERFORM TASKS ON DEVECTORS TRANSMIT E. E E REPLACE REPLACE YOU TROUBLESHOOT TO YOU TROUBLESHOOT TO 0 0 0 0 80 PERCENT MEMBERS PERFORMING 544 KI-07 DO YOU REMOVE YOU REHOVE 080 2000 PRESENT JOB USE 350 TRANSMITTERS PANSMITTERS 400 400 COMPONENTS DO YOU COMPONENTS 000 00000 000 000 00 00 x1=08 DO 00 SYSTEMS 650 KI-13 651 KI-14 652 KI-15 K 1-05 443 K1-04 K1-10 649 KI-12 41-14 K1=09 654 KI-17 K i a i a X1-20 K1-23 ×1-24 ×1-15 663 KI-26 664 KI-27 | N 653 KI-16 666 K2-01 TOUR K2-02 K2-03 645 65.5 8 9 9 6539 659 561 665 667 PCT

6 F M M O #

000000000

7077 30 30 30 52 7 17 0 9 1 6 0 0 O 00 33 33 20 25 33 4 2 33 23 33 0 0 0 00 FM TRANSMIT OR RECEIVE DO YOU REMOVE OR REPLACE FM TRANSMIT OR RECEIVE X2-05 DO YOU TROUBLESHOOT TO FM TRAMSMIT ON RECEIVE ON AUDIO AMPLIFIERS ON FREQUENCY MULTIPLIERS OR REPLACE PERFORM TASKS PERFORM TASKS SAON BEHOLE 2007 COMPONENTS COMPONENTS 00 STSTEMS K2-09 K2-10 K2-07 K 2-08 X2-05 670 673

K2-04

SYSTEMS

X

. 0 . 0 0 0 0

00000000

~ 0 17

'n 5

SPC 073 4000000 1 2 2 7 SPC 072 07 0 7 0 2 7 7 0 7 SPC 071 a 0000000 a a 90000 100 a 100 00 a 001 5 PC 200544 0 33 a 13 007700 0 00 0 0 0 0 0 22220022 a a a a 0 a 20 000000 35 250 SPSM48 PAGE SPC 047 0000 83 001 100 28 28 28 83 33 67 28 001 5 P.C 8888 83 33 100 92 58 2.8 5 PC 0 0000000 0 100 100 000000 09 90 09 0,0 90 0.4 09 99 77 2.8 500000 DO YOU CONVERT OCTAL NUMBERS TO DECIMAL NUMBERS
DO YOU CONVERT OCTAL NUMBERS TO BIMARY NUMBERS
DO YOU CONVERT BIMARY NUMBERS TO DECIMAL NUMBERS
DO YOU CONVERT BIMARY NUMBERS TO OCTAL NUMBERS
DO YOU CONVERT BIMARY NUMBERS TO GET A SUM
DO YOU SUBRRACT BIMARY NUMBERS USING THE END-AROUND— 699 L1-05 DO YOU CONSTRUCT TRUTH TABLES FOR EXCLUSIVE OR COGIC 694 K3-10 DO YOU ADD OCTAL NUMBERS TO GET A SUN 695 L1-01 IN YOUR PRESENT JOB, DO YOU PERFORM ANY TASKS RELATING TO LOGIC FUNCTIONS 696 L1-02 DO YOU CONSTRUCT TRUTH TABLES FOR AND LOGIC SYMBOLS 697 LI-03 DO YOU CONSTRUCT TRUTH TABLES FOR OR LOGIC SYMBOLS 643 LI-DY DO YOU CONSTRUCT TRUTH TABLES FOR AND OR OR LOGIC. SYMBOLS WITH STATE INDICATORS OR GATES
YOU USE OR REFER TO TRUTH TABLES FOR AND LOGIC 10) NUMBERS TO OCTAL K3-02 DO YOU CONVERT DECIMAL NUMBERS TO BINARY (BASE 2) DISCRIMINATORS K3-09 DO YOU SUBTRACT BINARY NUMBERS USING THE DIRECT 677 K2-12 DO YOU PENFORM TASKS ON POWER AMPLIFIERS
678 K2-13 DO YOU PENFORM TASKS ON RF AMPLIFIERS
679 K2-14 DO YOU PENFORM TASKS ON PREQUENCY CONVERTERS
681 K2-16 DO YOU PENFORM TASKS ON IT AMPLIFIERS
681 K2-15 DO YOU PENFORM TASKS ON LIMITERS
682 K2-17 DO YOU PENFORM TASKS ON LIMITERS
683 K2-18 DO YOU PENFORM TASKS ON PREQUENCY DISCRIMINATO
683 K2-18 DO YOU TRACE SIGNALS OR CURRENT PATHS THROUGH
5 CHEMATIC DIAGRAMS OF FM TRANSHITTERS DRIVERS (INTERMEDIATE BY SELECTED GRPS SCHEMATIC DIAGRAMS OF FM HECELVERS TASKS ON CONVERT DECIMAL TASK GROUP SUMMARY
PERCENT MEMBERS PERFORMING PERFORM PCT MBRS RESPONDING .YES. SUBTRACTION METHOD IBASE BI NUMBERS METHOD OR GATES OR GATES x3-08 Do STMBOLS 11-06 00 CARRY K3-03 x3-06 K 3-05 K3-07 064 169

NUMBERING SYSTEMS

SPC 074

0000000

30 0 S 000000

0000000

FUNCTIONS

0

~ 7

0 0

52 25

0

TO TRUTH TABLES FOR AND OR

15

75

7

0

100 00 00

0

83 83

83 83

6.0 09 0.9

ON GATES TOU USE OR REFER TO TRUTH TABLES FOR OR LOGIC

000

~ ~ ~

000

000

232

9 9 9

HOR

LOGIC SYMBOLS FOR AND GATES
LOGIC SYMBOLS FOR OR GATES
LOGIC SYMBOLS FOR MAND OR NO

000

000

11-10 00

TRUTH TABLES FOR EXCLUSIVE

TO TRUTH T

STATE

REFER

KI-08 DO YOU USE OR LOGIC STMBOLS WITH L1-09 DO YOU USE OR

LOGIC STMBOLS LOGIC SYMBOLS

703

OR GATES

STHBOLS

102

SYMBOLS 701 KI-07 DD

0 7

00

0 0 0 0

0 0 0 0

0

0

11-11 00 704

PET MBRS RESPONDING OFES! BY SELECTED GRPS

GPSH4B PAGE 26

					1				-							-
		X81-70	0 0 0 4 0 4	0 8 0 8 0 8	2 40	290	SPC 069	070	3 PC	5 PC 072	5 P.C.	5 P.C	5 P C			
Real introduction Control Cont	-	DO YOU USE OR REFER TO LOGIC STMBOLS FOR EXCLUSIFIES	5	909	8	83	25	0	0	0		un	0-			
THE AND STORE OF BUT WELLOUIS FOR CIPRED FOR CLURREN MODE LORIC 0 60 25 25 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	-	PERFORM ANY TASKS	0	0.9	67	67		0	100	0	0	0	r			
CALLAND TO VOU CANATAUÇI TRUTH TABLES FOR CURRENT MODE LOBIC CALLAND TO VOU CANATAUÇI TRUTH TABLES FOR CURRENT MODE LOBIC CALLAND TO VOU REAVER A COST C DAGGARS FROM GIVEN BOULEAN CALLAND TO VOU REAVER MALLER BANDER FROM GIVEN BOULEAN CALLAND TO VOU REAVER FROM GIVEN BOULEAN FOR STRIPLE CALLAND TO VOU MALLER BANDER FROM FROM FROM FROM FROM FROM FROM FRO	-	OR DIRECT COUPLE	0	0.9	1.1	1.7	0	0	0	0	O	0	0			
12-07-10 TOU DEAM LOGIC DIAGRAMS FROM GIVEN BOOLEAN 12-07-10 TOU DEAM LOGIC DIAGRAMS FROM GIVEN BOOLEAN 12-07-10 TOU DEAM LOGIC DIAGRAMS FROM GIVEN BOOLEAN 12-07-10 TOU DEAM CASURE INPUTES OF LOGIC GATES 12-07-10 TOU DEAM CASURE INTERFERENCE INFORMATION AND CASURE INTO INTO INTO INTO INTO INTO INTO INTO	-	ES FOR CURRENT MODE LOS	0	90	25	20	0	0	a	0	0	0	0	BOOLEAN		100%
12-05 00 700 DEFECTOR OF ALALZE BOOLLAN EDUATION THE TOTAL OF THE TOTA		IC DIAGRAMS FROM GIVEN BOOLEA	0	9	17	17	0	a	C	0	a	0	0	EQUATION	10	
PROCESS OF FROUBLESHOOTING DIGITAL CARCUITS OF USING BOOLEAN 1.05894 1.05894 1.05894 1.05894 1.05895 1.05995 1.05	712	INPUTS OR OUTPUTS OF LOGIC GATES	~ 0	4 40	67	67	00	00	00	20	00	×0 (2)	00			
ALGEBRA 700 USE OR REFER TO LOGIC SYNBOLS FOR DIRECT	-	LOGIC CIRCUITS B	2	0	60 LÚ)	*/i		0	0	a	0	0	0			
COUPLED TRANSTSTAR LOGIC (OCT.) CFRUIT GATES COUPLED TRANSTSTAR LOGIC (OCT.) CFRUIT GATES LOGIC (CAL.) CIRCUITS FOR REFER TO LOGIC DIGERAMS COMSISTING OF 2 60 58 58 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0		REFER TO LOGIC SYMBOLS FOR DIREC	2	O.	33	3.3	0	0	0	2	0	di	0			
LOGIC (CRL) CIRCULUSE OF REFER TO LOGIC DIAGRAMS COMSISTING OF 2 60 50 50 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	-	LOGIC (OCTL) CIRCUIT GATES REFER TO TRUTH TABLES FOR CURRENT	2	9	25	25	0	0	a	0	а	0	a			
EXPRESSIONS FOR SERIAL 2 600 33 33 0 0 0 0 2 0 5 5 5 6 6 6 6 6 6 6 6 6 6 7 25 0 100 6 7 5 5 6 6 6 6 6 6 6 6 7 25 0 100 6 7 5 5 6 6 6 6 6 6 6 6 6 6 6 6 6 6 6 6	717	S PREFER TO LOGIC DIAGRAMS CONSISTING	6.4	9		60	0	0	a	2	o	s	0			40
HALF OF FULL AODER LOGIC DIAGRANS 12-12 DO 700 TRACE DATA FLOW THROUGH PARALLEL FULL ADDER 12-13 DO 700 TRACE DATA FLOW THROUGH PARALLEL FULL ADDER 12-13 DO 700 WORK WITH ASTABLE (FREE RUNNING) 13 DO 700 WORK WITH ASTABLE (FREE RUNNING) 14 DO 700 WORK WITH HONOSTABLE (FLIP-FLOP) MULTIVIBRATORS 15 DO 700 WORK WITH HONOSTABLE (FLIP-FLOP) MULTIVIBRATORS 16 DO 700 WORK WITH HONOSTABLE (FLIP-FLOP) MULTIVIBRATORS 17 DO 700 WORK WITH HONOSTABLE (FLIP-FLOP) MULTIVIBRATORS 18 DO 700 USE OR REFER TO FLIP-FLOP MULTIVIBRATOR 18 DO 700 USE OR REFER TO FLIP-FLOP TRUTH TABLES 18 DO 700 USE OR REFER TO COMPLEMENTED FLIP-FLOP 18 DO 700 USE OR	-	EXPRESSIONS FOR SER	2	9	60	33	0	0	0	14	0	N.	٥			
L2-13 OF OUR WITH ASTABLE (FREE RUNNING) WULTIVIDAGE L2-13 OF OUR WORK WITH ASTABLE (FLIP-FLOP) MULTIVIBRATORS L2-13 OF OUR WORK WITH ASTABLE (FLIP-FLOP) MULTIVIBRATORS L2-14 DO TOU WORK WITH AGNOSTABLE (FLIP-FLOP) MULTIVIBRATORS L2-15 OF TOU WORK WITH AGNOSTABLE (FLIP-FLOP) MULTIVIBRATOR L2-15 OF TOU WORK WITH AGNOSTABLE (FLIP-FLOP) MULTIVIBRATOR L2-15 OF TOU WORK WITH AGNOSTABLE (FLIP-FLOP) MULTIVIBRATOR L2-16 DO TOU WE OR REFER TO SINGLE-SHOT MULTIVIBRATOR L2-16 DO TOU WE OR REFER TO FLIP-FLOP FLIP-FLOP STRBOLS L2-17 DO TOU WE OR REFER TO COMPLEMENTED FLIP-FLOP L2-18 DO TOU WE OR REFER TO COMPLEMENTED FLIP-FLOP L2-18 DO TOU WE OR REFER TO COMPLEMENTED FLIP-FLOP L2-18 DO TOU WE OR REFER TO COMPLEMENTED FLIP-FLOP L2-18 DO TOU WE OR REFER TO COMPLEMENTED FLIP-FLOP L2-18 DO TOU WE OR REFER TO COMPLEMENTED FLIP-FLOP L2-28 DO TOU WE OR REFER TO COMPLEMENTING FLIP-FLOP L2-29 DO TOU WE OR REFER TO COMPLEMENTING FLIP-FLOP L2-20 DO TOU WE OR REFER TO COMPLEMENTING FLIP-FLOP L2-21 DO TOU MEASURE OUTPUT HAVESHAPES OF LOGIC CIRCUITS L2-22 DO TOU MEASURE OF COMPLEMENTING FLIP-FLOP L2-23 DO TOU MEASURE OF COMPLEMENTING FLIP-FLOP L2-24 DO TOU MEASURE OF COMPLEMENTING FLIP-FLOP L2-25 DO TOU COMPSTRUCT TRUTH TABLES FOR U	146	SH PARALLEL FULL ADDE	0	9	50	0.51	0	a	a	N	a	un	0			
NULTIVIBRATORS		la.	*	0 9		6.7	25	D	00	40	1	un	a			
L2-15 DO YOU WORK WITH MONOSTABLE TONE-SHOT! NULTI YISRATORS L2-16 DO YOU WORK WITH MONOSTABLE TONE-SHOT! L2-16 DO YOU WSE OR REFER TO SINGLE-SHOT MULTI VIBRATOR SYMBOLS L2-17 DO YOU WSE OR REFER TO SINGLE-SHOT MULTI VIBRATOR SYMBOLS L2-17 DO YOU WSE OR REFER TO SINGLE-SHOT MULTI VIBRATOR SYMBOLS L2-17 DO YOU WSE OR REFER TO SINGLE-SHOT MULTI VIBRATOR SYMBOLS L2-18 DO YOU WSE OR REFER TO COMPLEMENTED FLIP-FLOP L2-19 DO YOU WSE OR REFER TO COMPLEMENTED FLIP-FLOP L2-10 DO YOU WSE OR REFER TO COMPLEMENTED FLIP-FLOP L2-10 DO YOU WSE OR REFER TO COMPLEMENTED FLIP-FLOP L2-10 DO YOU WSE OR REFER TO COMPLEMENTED FLIP-FLOP L2-10 DO YOU WSE OR REFER TO COMPLEMENTED FLIP-FLOP L2-21 DO YOU WSE OR REFER TO COMPLEMENTED FLIP-FLOP L2-22 DO YOU TRACE DATA FLOW THROUGH COMPLEMENTED FLIP-FLOP SCHEMATIC DIAGRAMS L2-24 DO YOU TRACE DATA FLOW THROUGH COMPLEMENTED FLIP-FLOP SCHEMATIC DIAGRAMS L2-24 DO YOU TRACE DATA FLOW THROUGH COMPLEMENTED FLIP-FLOP RLOP SCHEMATIC DIAGRAMS L2-25 DO YOU CONSTRUCT TRUTH TABLES FOR U-K FLIP-FLOP Z 2D SO SO SO TOU CONSTRUCT TRUTH TABLES FOR U-K FLIP-FLOP Z 2D SO SO SO TOU CONSTRUCT TRUTH TABLES FOR U-K FLIP-FLOP Z 2D SO SO SO SO TOU CONSTRUCT TRUTH TABLES FOR U-K FLIP-FLOP Z 2D SO SO SO SO TOU CONSTRUCT TRUTH TABLES FOR U-K FLIP-FLOP Z 2D SO SO SO SO TOU CONSTRUCT TRUTH TABLES FOR U-K FLIP-FLOP Z 2D SO SO SO SO TOU CONSTRUCT TRUTH TABLES FOR U-K FLIP-FLOP Z 2D SO SO SO SO TOU CONSTRUCT TRUTH TABLES FOR U-K FLIP-FLOP Z 2D SO SO SO SO TOU CONSTRUCT TRUTH TABLES FOR U-K FLIP-FLOP Z 2D SO SO SO SO TOU CONSTRUCT TRUTH TABLES FOR U-K FLIP-FLOP Z 2D SO SO SO SO SO TOU CONSTRUCT TRUTH TABLES FOR U-K FLIP-FLOP Z 2D SO SO SO SO SO TOU CONSTRUCT TRUTH TABLES FOR U-K FLIP-FLOP Z 2D SO		000000000000000000000000000000000000000	9				2 .	0					C			
1.2-16 DO TOU USE OR REFER TO SINGLE-SMOT MULTIVIBRATOR STHBOLS 1.2-16 DO TOU USE OR REFER TO SINGLE-SMOT MULTIVIBRATOR STHBOLS 1.2-17 DO TOU USE OR REFER TO SINGLE-SMOT MULTIVIBRATOR 1.2-18 DO TOU USE OR REFER TO FLIP-FLOP TRUTH TABLES 1.2-19 DO TOU USE OR REFER TO COMPLEMENTING FLIP-FLOP 1.2-19 DO TOU USE OR REFER TO COMPLEMENTING FLIP-FLOP 1.2-19 DO TOU USE OR REFER TO COMPLEMENTING FLIP-FLOP 1.2-19 DO TOU USE OR REFER TO COMPLEMENTING FLIP-FLOP 1.2-19 DO TOU USE OR REFER TO COMPLEMENTING FLIP-FLOP 1.2-19 DO TOU USE OR REFER TO COMPLEMENTING FLIP-FLOP 1.2-20 DO TOU USE OR REFER TO COMPLEMENTING FLIP-FLOP 1.2-21 DO TOU USE OR REFER TO COMPLEMENTING FLIP-FLOP 1.2-22 DO TOU USE OR REFER TO COMPLEMENTING FLIP-FLOP 1.2-23 DO TOU TRACE DATA FLOW THROUGH COMPLEMENTING FLIP-FLOP 2. 30 SS SS O TOU CONSTRUCT TRUTH TABLES FOR U-K FLIP-FLOP 2. 20 SO SO TOU CON CONSTRUCT TRUTH TABLES FOR U-K FLIP-FLOP 3. 20 SO SO TOU CON C		E (0NE-5H0T)	*	0.0	0 2	64	25	0	100	0 40	-	'n	0			1
L2-17 DO YOU USE OR REFER TO SINGLE-SHOT MULTIFIBRATOR 6 60 67 67 25 0 100 5 5 5 5 5 5 5 5 5 5 5 5 5 5 5 5		DO YOU USE ON REFER TO FLIP-FLOP MULTIVIBRATO	ar .	0 9	67	67	52	0	0	'n	un	s	0			-
L2-18 DD 70U USE OR REFER TO FLIP-FLOP CIRCUIT DIAGRANS 4 60 67 67 25 0 100 6 7 5 5 0 100 6 7 5 5 0 100 6 7 5 5 0 100 6 7 5 5 0 100 6 7 5 5 0 100 6 7 5 5 0 100 6 7 6 7 6 7 6 7 6 7 6 7 6 7 6 7 6 7 6		YOU USE OR REFER TO SINGLE-SHOT	٠	0.9	67	6.7	25	2	100	s.	2	us	0			
L2-20 DO YOU USE OR REFER TO COMPLEMENTING FLIP-FLOP 1,061C SMBOLS 1,061C SMBOL		YOU USE OR REFER TO FLIP-FLOP CIRCUIT DIAGRAN YOU USE OR REFER TO FLIP-FLOP TRUTH TABLES	4 8	09	67		25	00	100	9 19	~ 5	w 0	00			
L2=21 DO YOU USE OR REFER TO COMPLEMENTING FLIP-FLOP LOGIC 2 40 58 58 25 0 100 5 5 5 5 5 5 780 L2 2 70 USE OR REFER TO COMPLEMENTING FLIP-FLOP 2 40 56 58 0 0 100 3 2 5 5 5 5 6 0 0 0 0 0 0 0 7 5 5 5 6 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0		YOU USE OR HEFER TO COMPLEMENTED FLIP-FLO	2	0.	60	- S	25	0	100	v	es.	ru.	0			
L2=23 DO 700 MEASURE DUTPUT WAVESHAPES OF LOGIC CIRCUITS L2=23 DO 700 TRACE DATA FLOW THROUGH COMPLEMENTED FLIP—FLOP 2 90 58 58 0 0 0 0 7 5 SCHEMATIC DIAGRAMS L2=23 DO 700 TRACE DATA FLOW THROUGH COMPLEMENTIME FLIP— 2 90 58 58 0 0 0 0 0 0 0 7 5 FLOP SCHEMATIC DIAGRAMS L2=25 DO 700 CONSTRUCT TRUTH TABLES FOR J=X FLIP—FLOP 2 20 50 50 0 0 0 0 0 0 0		DO YOU USE OR REFER TO COMPLEMENTING FLIP-FLOP LOGI	7	0 #		50	25	0	100	S	un	s	0			
L2-23 DO 70U TRACE DATA FLOW THROUGH COMPLEMENTED FLIP-FLOP 2 90 58 58 0 0 0 0 0 7 5 5 5 5 5 5 5 5 5 5 5 5 5 5	-	YOU MEASURE OUTPUT MAYESHAPES OF LOGIC CIPCUITS	8	20	63	67	25	o	100	~	24	40	0		1	1
L2-29 DD TOU TRACE DATA FLOW THROUGH COMPLEMENTING FLIP- Z 70 56 56 0 0 0 0 0 7 5 5 10 9 SCHEMATIC DIAGRAMS L2-25 DD TOU CONSTRUCT TRUTH TABLES FOR J-X FLIP-FLOP Z 20 50 50 0 0 0 0 0 0 0	-	YOU TRACE DATA FLOW THROUGH COMPLEMENTED FLIP-FLO	2	90		age NO	0	a	0	٠	1	2	0			
L2-25 00 700 CONSTRUCT TRUTH TABLES FOR J-K FLIP-FLOP 2 20 50 50 0 0 0 0 0 0		2-24 DO YOU TRACE DATA FLOW THROUGH COMPLEMENTING FLIPFLOP SCHEMATIC DIAGRAMS	7	40	us us		O	0	a	٠	^	2	0			100
	100	DO TOU CONSTRUCT TRUTH TABLES FOR J-K FLIP-FL	2	20	20	80	0	0	0	0	0	0	0			

PCT MBRS RESPONDING .YES . BY SELECTED GRPS

GPSM4B PAGE 27

	DY-TSK	SPC 064	200	5 PC	260	SPC 069	5 pc	SPC 071	5PC 072	5 PC	5 PC	5PC 075		
~	YOU WORK W	•	9	67	67	20	33	100	49	01	10	•		
734	3-02 DO YOU USE OF REFER TO UP. COUNTERS	40	09	50	20	80	33	100	4	7	s	*		
15	3-03 DO YOU USE OR REFER TO DOWN-C	•	9	120	80	25	0	100	•	1	40	*		
-0	DO YOU	*	9	20	50	0	0	0	2	s	2			
737	DO YOU USE OR REFER TO PARALL	*	09	20	3.0	0	0	0		\$	5	•	COUNTERS	
738	DO YOU USE OR	2	20	50	20	25	0	100	s	1	0			
739	DO YOU USE OR REFER TO DECADE	7	20	50	8	25	0	100	S	1	0	*		
740	DO YOU USE OR RESER TO COUNT DETECT OF		1 3	4.0	4.0	25	c	0 0		2				
	The contract of the state of the contract of t		4				0 0	0				c		
142	DO YOU USE OR REFER TO UP CLOCKS	or or	909	90	0 00	25	33	2 5	0	0	0	0		
743	DO YOU TRACE DATA FLOW THROUGH	99	0	20	20	10	, 0	0 0	~	2	S	•		
1	DUNTERS HAVING COMPLEMENTED FLIP-FLOPS													
344	TRACE DATA FLOW THROUGH LOGIC DIAGRA	40	0 #	#2	9.5	a	٥	a	7	2	0			
	4.3													
745	L3-13 DO YOU TRACE DATA FLOW THROUGH LOGIC DIAGRAMS OF	3	20	5.8	5.8	25	0	100	2	2	0			
746	L3-14 DO YOU TRACE DATA FLOW THROUGH LOGIC DIAGRAMS OF	2	20	5.0	20	25	0	100	2	7	0	*		
			4				c		c	c	0			
-	LFL STORAGE	4	2	0	0	0	0	0	,	•	0			
748	CE DATA FLOW THROUGH LOGIC	3	9	75	75	25	0	100	0	0	0	a		
1													-	
2	CINER TYPE OF COUNTERS	*	9	15	15	0	0	0	0	0	0	0		
150	MT AFTER	4	0.	33	33	0	٥	0	2	7	0			
	MENTED FLIP-FLOPS													
751	TOTAL STATE OF THE BINARY COUNT AFTER SPECIFIC INPUT PULSES FOR SERIAL UP- OR DOEN-FOUNTERS MAKING COMPLETERIAL	2	4	52	52	0	0	0	~	7	0	•		
752	L3-20 DO YOU COMPUTE THE BINARY COUNT AFTER SPECIFIC IMPUT PULSES FOR SERIAL UP-COUNTERS FEEDING A PARALLEL STORAGE	2	40	52	25	0	0	0	~	7	0	•		
				1	1									
2	PULSES FOR OTHER TYPES OF COUNTRRS	,	0	2	33	0	0	0	0	0	0	,		
5.4	L3-22 DO YOU CONSTRUCT TRUTH TABLES FROM LOGIC DIAGRANS OF	0	0.40	0	60	0	0	0	0	0	0	o		1
5.5	DECADE COUNTERS	2	20	26	35	25	0	100	2	7	0	•		
20	« I	8	9	25	52	0	0	0	7	7	0	•		
10	E GENERATORS	5.8	80	83	83	75	6.7	100	5.2	0.4	35	57		1
758	MAVE GENERATOR	2	0.5	33	33	25.0	0	000	32	38	20	35		
759	WITH PULSED OSCILLATORS WITH	26	40	67	6.7	20	33	100	35	36	35			1 7
760	FERDWACK MI=04 00 YOU WORK WITH PULSED OACILLATORS WITHOUT	2.1	0 #	50	8	25	0	100	3.2	3.6	25	35	TIMING CIRCUITS	
	1			,		1								

PCT MBRS RESPONDING "YES" BY SELECTED GRPS

GPSM48 PAGE 28

						1.4	0.00	200	1.0		1	1.4	1		1.4	
				DY-TSK	0 640	0 6 50	000	267	0000	070	071	072	073	0 1 10	075	
X	7	H 1 = 0	00 0	BORK BITH BLOCKING DSCIL	5.8	00	92	92	75	67	100	200	10	50	52	
E	-	H1 -0	00 9	USE OR REFER TO RIGE TIME	2.6	09	75	75	75	6.7	100	3.2	33	3.0	22	
E	Po	H1-0	00 4	USE OR REFER TO FALL OR	23	0.9	67	67	100	23	100	31	3.3	25	26	
X.	-	M1-0	9 00	THE REPERT TO SWEET TIME	62	100	9.2	9.2	75	6.7	100	4.2	8	30	7	
£	765	N 1 = 0	00 6	USE OR REFER TO ELECTRICA	53	001	62	92	20	47	0 0	0#	AL PL	00	14	
		B	CRHS								2			2		
I	76	N 9	¥ 00	TOU USE OR REFER TO PHYSICAL LENGTH OF SANTOOTH	53	100	9.2	9.2	75	19	100	34	36	30	30	
		*	DR MS													•
Σ	16	7	000	TOU USE OR REPER TO LINEAR SLOPE OF SAWTOOTH	43	90	9.5	9.2	20	3.3	100	58	56	35	22	•
3	7.4	e	2 00 4	000000000000000000000000000000000000000	4	0	0	0				2	9		9	
	0	0	FORMS	200 x 400 20 x 100 20 x 100 20 x 100 20 20 20 20 20 20 20 20 20 20 20 20 2	-		7		On on	0	a	6	0	2	65	
X	76	0	00	U USE SIGNAL GENERATORS IN YOUR P	3.1	90		89	100		100		01	20		
X	11	0	00	U PERFORM OPERATIONAL CHECKS WHILE USING S	21	09	120	5.8	75	67	100	13	10	20	m -	
		SEN SEN	RA													USE OF SIGNAL
£	1		*U3 00 T	TRANSKA PRAJODIO XAININAMON SCOTA AN	11	50	43	4 2	20	67	0	10	s	50	er-	GENERATORS
		2 19	GENERATORS	פרי פרי שביים שביים שביים פרי שביים שביים פרי שביים פרי שביים שביי	-	-	-	-	-			-	-			-
K	77	2 M2=0	4 00 ¥	OU TROUBLESHOOT TO AN ASSEMBLY OR SUBASSEMBLY	23	20	50	50	75	100	C	01	5	20	*	
		IR	LE USI	NG SIGNAL GENERATORS							,					
Ľ	11	E E	2-05 DO YOU T	ROUBLESHOOT TO THE SMALLE	4	0	33	33	0	0	a	e	0	0	0	ń
			PONENT	LE USING SIGNAL GENERATORS												
E	374	ĸ	\$ 00 ¥	SE AUDIO SINE WAVE GENERATORS	0	40	11	17	50	3.3	100	٣	7	2	*	
I		E	7 00 7	SE AUDIO NOM-SINUSOIDAL MAN	0-	40		33		0	100	7	7	S	7	
1		4 0	5	THE THIRTH PULSES ON STAKE												
E	110	9 0	5 6	THE COLOR AND THE PROPERTY OF		2 0	45	52	52	200	0	n :	0	w1 .	0	
E 3		2 6	5 6	THE CALLE CONTRACT ALTERNATION OF THE CALL	11	02	0 6	9 6		200	000	20 1		6	x (
			ERAIDR	STELIAL PORTUSE OR MOLITER ONLING		0	7	4		2	000	0	٧	0	r	
Ε	11	DIEM 6	X	ORM ANY TASKS	2.1	90	7.5	15	25	33	0	0 4	0	40	35	
		GENE	ERATOR	EN ON DIRECT CORRENT NO ONS O			-									
E	123	X.	2 00 Y	0.10	5	0 *	7.5	7.5	C	a	C	35	33	0 *	26	4
E	00	1 M3-0	00		co	0	100	5.8	22	3.3	0	2 1	11	30	w	
X	600	2 M3-0	00 .	OPERATE MOTORS		9	75	75	25	3.3	0	5 8	5.8	30	17	HOTORS AND
E	SC.	3 M3-0	2 00	REMOVE OR REPLACE COMPLETE	1.7	20	75	75	25	33	0	27	24	35	1.7	GENERALORS -
E	784	4 43	00	LACE MOTOR PARTS	er.	0	33	33	0	0	0	S	s	S	0	
左	ap: -	S A	00	TROUBLESHOOT AS FAR AS C	-	09	75	15	12	网网	0	3.2	23	30	30	
	1	HOU	VECT I	OF MOTORS												
T.	1 20	0 43 40	000	ROUBLESHOOT DOWN TO COMPONENT	00	0	52	52	0	a	0	m	un.	0	r	
E	7.8	7 7300	00	FORM ANY TASKS ON FIELD	•0	20	SE.	8	0	a	a	0	0	0	0	
Z	7 80	1424	00 0	PERFORM ANY TASKS ON ARMATURE	.0	20	40	30	0	a	0	a	0	0	0	
Z.	7.8	1070	00	TEXTORY ANY TASKS ON ROTORS	9	20	80	90	0	a	a	0	0	0	0	
E.	10	0 M3-1	000	ERFORM ANY TASKS ON BRI	*	20	11	17	0	a	0	~	4	0	0	80
E	7.0	M3-1	000	PERFORM ANY TASKS ON SLIP RINGS	0	20	40	er;	a	0	a	7	2	0	0	4
K 1	- 1	1 43	000	DO PERFORM	•	20	40	00	0	a	0	0	0	0	0	
E	1.0	3 43-1	2 00 4	DU PERFORM ANY TASKS ON POLE PIECE	9	20	9	æ	a	0	a	0	0	0	0	

29	
2	
9	
a	
00	
T.	
5	
G	
RPS	
5	
œ	
0	
100	
5	
141	
50	
× 00	
	3
2	8
-	0
ING *YES* BY SELECTED GRPS	20
Z	A A C
2	N V
0	200
ES .	0. 7
ex.	01
S	9 1
80	× 4
PCT MBRS RESPONDE	TASK GROUP SUMMAR
U	- 0
100	

DY=18K	SPC S	SPC SP0	90 9	2 SPC 7 069	SPC 070	SPC 071	5PC 072	SPC 073	5PC	SPC 075	
200	•	0	17 17	0	0	0	2	0	41	0	
BY A MOTOR R MEASURE THE DIRECTION OF	۰				0	2 C	'n	un	-	0	
MECHANICAL FORCE OR TORQUE CREATED BY A MOTOR						,					
THE MACHINE DO YOU DETERMINE OR MEASURE THE MACHINDE	0	0	33 3.	3 0	0	0	0	10	0	0	
10 TO WOLL WORK WITH SYLVEN	•	04	42 42		C	•		96	3.6	-	
	00		4 0	1	0	0 0	3.5	3 2		2.5	
799 M3-21 DO YOU	٠,				0 0	0			2 .	**	
800 M3-22 DO YOU WORK WITH S	3 -6	004	67 67			9 0	27	3 .	0 0	2.5	
801 M3-23 DO YOU INSPECT GENERATORS	• •					0 0		12	2 -	4 7	
M3-24 DO YOU	~		33 33	0	0	0	2	-	0	0	
803 M3-25 DO YOU OPERATE GENERATORS	•				0	0	13		01	•	
BOW M3-26 DO YOU REMOVE OR REPLACE	*				0	0	8	01	41	•	
805 M3-27 DO YOU REMOVE OR REPLACE GENERATOR PARTS	2				0	0	7	0	2	0	
N SOLS MAINED TO TOUR TROUBLESTOOT AS FAR AS CHECKING MIRE	٠	40	58 58		0	0	•	11	-	13	
Toolar FCHOOL			-	-		-					-
GENERATORS				0	•	0	•	•	0		
BOB MI-DI DO YOU WORK WITH METERS IN YOUR P	7.0			100	100	001	74	7.4	15	7.4	
N 809 NI-02 DO YOU CONCEPTUALIZE OR CONSIDER THE FUNCTIONS OF	6	09	33 33		0	a	=	12	01	٥	
TENTANCE MAGNETS											
MOVING COLLS	-	0	13 33	a	0	a	=	7 !	0	WETER	MOVEMENTS
M 811 NI-04 DO YOU CONCEPTUALIZE OR CONSIDER THE FUNCTIONS OF	9	2 09	5 25	0	0	C	10	-	o	13	
SPIRAL SPRINGS											
MI-OS DO YOU READ METER SCALES	7.2			100	100	100	7.4	74	7.5	7.4	
813 NI-06 DO YOU EXTEND THE R				75	29	100	58	31	25	35	
814 NI-07	70	90		-	100	100	69	67	75	70	
MI - DB DO YOU ZERO AMMETERS	30				33	100	34	36	30	3.6	
SIS MI -UP DO TOU EXTEND THE RANGE OF VOLTME		*0		75	19	100	*	8	35	6	
SI MINIO DO TOU OSE ON MEREN TO				5	67	0	31	40	01	35	
RABLE	9	40 7	5 75	50	23	100	2.2	2.0	100	13	
AMPLIFIERS IN YOUR PRESENT JOB					,		1		2		
***	٠	9	7 67	20	33	100	7.4	•	35	13	SHO
N 820 N2-03 DO YOU CLEAN MAGNETIC AMPLIFIERS OR SATURABLE	4	0	33 33	25	0	100	13	13	15		
REACTORS											
N 821 NATURE DO TOO ADJUST TAGMETIC AMPLIFIERS ON SATURABLE	•	20 3	3 33	0	0	0	2.4	3.6	35	11	I ERS
" 822 MZ-05 DO TOU TROUBLESHOOT MAGNETIC AMPLIFIERS OR SATURABLE REACTORS	٠	20 6	7 67	90	33	100	24	1.7	9.0	13	AMUTAN MAN WALLE
N 823 MZ-06 DO TOU REMOVE OR REPLACE MAGNETIC AMPLIFIERS OR	4	20 7	5 75	50	33	100	5.4	11	0 \$		INA
S 24 M2 DO TO THE STORY OR REPLACE MAGNETIC AMPLIFIER OR	*	0	2 42	25	ø	100	5	JS.	'n		
SALURABLE HEACTUR COMPONENTS											

NZ-09 DD YOU NZ-09 DD YOU NZ-09 DD YOU NZ-09 DD YOU NZ-09 DD YOU NZ-09 DD YOU NZ-11 D DD YOU NZ-11 D DD YOU NZ-11 D D YOU NZ-09 DD YOU N	A PARTICULAR STANDARD	S CURVES OR LOOPS NGS TO DEVELOP OUTPU LOAD RESISTORS OF MINDING SATURABLE NGS TO DEVELOP OUTPU FORCE IN SATURABLE ITY IN SATURABLE TITY IN SATURABLE SATURATION IN REACTOR SCHEMATIC	US NJ S S D C		U 9 15 15 15 15 15 15 15 15 15 15 15 15 15	22	L	1	200	Q.	0 1	SPC	
NA-09 DO TOU USE OR REFER TO RESIDENCE ALTONE STOCKELP OUTPUT 4 TO 35 DA 25 DO TOU USE OR REFER TO RESIDENCE ALTONE STOCKELP OUTPUT 4 TO 35 DA 25 DO TOU USE OR REFER TO RESIDENCE ALTONE STOCKELP OUTPUT 4 TO 35 DA 25 DO TOU USE OR REFER TO RESIDENCE ALTONE STOCKELP OUTPUT 4 TO 35 DA 25 DO TOU USE OR REFER TO RESIDENCE ALTONE STOCKELP OUTPUT 4 TO 35 DA 25 DO TOU USE OR REFER TO RESIDENCE ALTONE STOCKELP OUTPUT 4 TO 35 DA 25 DO TOU USE OR REFER TO RESIDENCE ALTONE STOCKELP OUTPUT 4 TO 35 DA 35 DO TOU USE OR REFER TO RESIDENCE ALTONE STOCKELP OUTPUT 5 DA 25 DA 35 DO TOU USE OR REFER TO RESIDENCE ALTONE STOCKELP OUTPUT 5 DA 35	MATTICE DESCRIPTION OF STREET OF STR	S CURVES OR LOOPS NGS TO DEVELOP OUTPU LOAD RESISTORS OF MINDING SATURABLE NGS TO DEVELOP OUTPU NGENETISM IN THE IN SATURABLE TO SATURABLE THE IN SATURABLE THE	* NT * F D C		क लाल व			0.5	07				
NA-10 BO TOU INEEPERT SCHEMENT CORPUSSIONS OF THE NATIONAL PROPERTY OF	2	S CURVES OR LOOPS NAS TO DEVELOP OUTPU LOAD RESISTORS OF ACROSS REACTOR HINDING SATURABLE HGS TO DEVELOP DUTPU FORCE IN SATURABLE ITY IN SATURABLE SATURATION IN REACTOR SCHEMATIC	W 7 8 8 0 0	40 40 50 50 50 50 50 50 50 50 50 50 50 50 50			, p-	0 07		-	079	940	
NAME CORNEL SERVICE STATES TO SECRETARY OF THE STATES TO SECRETARY OF THE STATES AS A STAT	A STANDARD S	NGS TO DEVELOP OUTPULAD RESISTORS OF ACTOR MINDING SATURABLE MES TO DEVELOP OUTPURABLE IN SATURABLE MAGNETISM IN SATURABLE SATURABLE SATURATION IN REACTOR SCHEMATIC	7 8 8 D	40 20 0		500	0			2	0	0	
AMERICAN STATES OF REFER TO PRINTINGS OF DEVELOP DUTPUT. **RECORD OF THE STATES OF ST	TE SET SET SET SET SET SET SET SET SET S	LOAD RESIDIONS OF THE STORES O	* * 0	20 20 20 0	e 4	•	25.0	01	-		0	0	
NATION TO THE MESSAGE OFFERENCE NATION THE MESSAGE NATION TO THE MESSAGE NATION THE M	CARTORN COERS COER	ACROSS REACTOR WINDING SATURABLE INGS TO DEVELOP DULP FORCE IN SATURABLE SITY IN SATURABLE SATURATION IN	* * 0 0	0 5 0 0 4 0	4 4								
MINIMES ON LOUGH STATES TO STRUKE HINDING STUDDEN. MAINTENES ON LOUGH STATES TO STRUKE HINDING STUDDEN. MAINTENES STATES TO STRUKE HINDING STUDDEN. MAINTENES STATES TO STRUKE HINDING STUDDEN. MAINTENES STATES STATES TO STRUKE HINDING STUDDEN. MAINTENES STATES STATES TO STRUKE HINDING STATES HINDING STATES STATE	SCHEMATIC DRA AMPLIFIERS TO COERCIVER TO RESIDUALE ER TO FELIX OF ER TO FLUX DE	HAS TO DEVELOP OUTP HAS TO DEVELOP OUTP FORCE IN SATURABLE MAGNETISM IN SITY IN SATURABLE SATURATION IN	* 0 C	0 0 0 0 0	7.	2	52	0		1.2	01	0	
**************************************	SCHEMATIC DRA AMPLIFIERS ER 10 COERCIV ER 10 RESIDUA ER 10 FLUX DE	FORCE IN SATURABLE MAGNETISM IN SATURABLE SATURATION IN	e 0 0	0 7 0 0									
######################################	ER TO RESIDUALER TO FLUX DE	FORCE IN SATURABLE SITY IN SATURABLE SATURATION IN	0	0 0 0 0	33	33	0		-			0-	
	ER TO RESIDUA	MAGNETISM IN SATURABLE SATURATION IN E REACTOR SCHEMATI	0	2 0 0 0									
### 100 YOU USE OR REFER TO FLUX DENSITY IN SATURABLE REACTORS OF SECRETARIES. 20 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	ER TO RESIDUA	SITY IN SATURABLE SATURATION IN	C	20 20	0	0	0			o	0	٥	
**************************************	ER TO FLUX DE	SITY IN SATURABLE SATURATION IN E REACTOR SCHEMAT	,	20	00	80	0		0	0	0	٥	
MEATOR OUT ONE OF REFER TO POLINT OF SATURATION IN NATIONAL OUT ONE OF REFER TO POLINT OF SATURATION IN NATIONAL OUT ONE OF REFER TO POLINT OF SATURATION IN NATIONAL OUT OF OUT ONE OF REFER TO POLINT OF SATURATION IN NATIONAL OUT OF OUT ONE OF REFER TO POLINT OF SATURATION IN NATIONAL OUT OF OUT ONE OF REFER TO POLINT OF SATURATION IN NATIONAL OUT OF OUT ONE OF REFER TO POLINT OF SATURATION IN NATIONAL OUT OF OUT ONE OF REFER TO POLINT OF SATURATION IN NATIONAL OUT OF OUT ONE OF REFER TO POLINT OF SATURATION IN NATIONAL OUT OF OUT OF SATURATION IN NATIONAL OUT OF OUT OF SATURATION IN NATIONAL OUT	EN TO FLUX DE	SATURATION IN SATURATION IN E REACTOR SCHEMAT		0 20									
SATURABLE REACTORS SATURA		SATURATION IN REACTOR SCHEMAT	0	0	0	0	0		0	0	0	0	
SATURABLE REACTORS SATURABLE REACTORS SATURABLE REACTORS STREAGLS STREAG	ER TO POINT	REACTOR SCHEMAT	a		0	40			S	7	0	*	
SYMBOLS TO SECULAR MAY SHARING CIRCUITS IN YOUR PRESENT 49 100 92 92 75 67 100 50 50 50 50 100 100 100 WORK WITH WAVESHARING CIRCUITS IN YOUR PRESENT 49 100 92 92 75 67 100 50 50 50 50 100 100 100 WORK WITH WAVESHARING CIRCUITS IN YOUR PRESENT 9 100 92 92 75 67 100 10 10 10 10 10 10 10 10 10 10 10 10	E REACTORS	AKALION SENEMAL	,	0						,			
19	on stren to salone		7	20	4	4		-			0		
19	WITH WAVESHAPING	CUITS IN YOUR PRESE	44	001			so.	0	50	90	50	4	
N3-01 DO YOU USE OR REFER TO PULSE KIDTH (FM) N3-05 DO YOU USE OR REFER TO PULSE KIDTH (FM) N3-05 DO YOU USE OR REFER TO PULSE KIDTH (FM) N3-05 DO YOU USE OR REFER TO PULSE KICURRANCE FIRME (PRT) N3-05 DO YOU USE OR REFER TO PULSE KICURRANCE FIRME (PRT) N3-05 DO YOU USE OR REFER TO PULSE KICURRANCE FIRME N3-05 DO YOU USE OR REFER TO LINFERRATING CIRCUITS N3-05 DO YOU USE OR REFER TO LINFERRATING CIRCUITS N3-05 DO YOU USE OR REFER TO LINFERRATING CIRCUITS N3-05 DO YOU USE OR REFER TO LINFERRATING CIRCUITS N3-05 DO YOU USE OR REFER TO LINFERRATING CIRCUITS N3-05 DO YOU USE OR REFER TO LINFERRATING CIRCUITS N3-05 DO YOU USE OR REFER TO LINFERRATING CIRCUITS N3-05 DO YOU USE OR REFER TO LINFERRATING CIRCUITS N3-05 DO YOU USE OR REFER TO LINFERRATING CIRCUITS N3-05 DO YOU USE OR REFER TO LINFERRATING CIRCUITS N3-05 DO YOU USE OR REFER TO LINFERRATING CIRCUITS N3-05 DO YOU USE OR REFER TO LINFERRATING CIRCUITS N3-05 DO YOU USE OR REFER TO LINFERRATING CIRCUITS N3-05 DO YOU USE OR REFER TO LINFERRATING CIRCUITS N3-05 DO YOU USE OR REFER TO LINFERRATING CIRCUITS N3-05 DO YOU USE OR REFER TO LINFERRATING CIRCUITS N3-05 DO YOU USE OR REFER TO LINFERRATING CIRCUITS N3-05 DO YOU USE OR VERTING CIRCUITS N3-05 DO YOU USE OR REFER TO LINFERRATING CIRCUITS N3-05 DO YOU USE OR REFER TO LINFERRATING CIRCUITS N3-05 DO YOU USE OR REFER TO LINFERRATING CIRCUITS N3-05 DO YOU USE OR NEVER TO THE CLASSITICATION OF THE CONTROL CIRCUITS N3-05 DO YOU USE OR NEVER TO THE CLASSITICATION OF THE CIRCUITS N3-05 DO YOU USE OR NEVER TO THE CURRENT OR RECEIVE TO THE CONTROL TO YOU WONLY WANTED TO THE CONTROL TROUBLESHOOT TO SSE TRANSMIT OR RECEIVE TO THE CONTROL TROUBLESHOOT TO SSE TRANSMIT OR RECEIVE TO THE CONTROL TROUBLESHOOT TO SSE TRANSMIT OR RECEIVE TO THE CONTROL TROUBLESHOOT TO SSE TRANSMIT OR RECEIVE TO THE CONTROL TROUBLE SHOOT TO THE CONTROL TROUBLESHOOT TO SSE TRANSMIT OR TROUBLESHOOT TO SSE TRANSMIT OR TROUBLESHOOT TO SSE TRANSMIT OR THE CONTROL TO THE CONTROL TROUBLESHOOT TO THE CONTROL TROUBLESHOOT TO	OU USE OR REFER TO TRANSIE	INTERVAL	6.1	90	67	6.7			-	•	20	13	9
### 3-04 00 YOU USE OR REFER TO PULSE RECURRENCE FREQUENCY ## 100 92 92 75 67 100 47 45 50 18-85 100 40 VILLE OR REFER TO PULSE RECURRENCE FREQUENCY ## 100 92 92 75 67 100 47 45 50 100 47 45 50 100 47 45 50 100 47 45 50 100 47 45 50 100 47 45 50 100 47 45 50 100 47 45 50 100 47 45 50 100 47 45 100 47 45 100 47 45 100 47 45 100 47 45 100 47 45 100 47 45 100 47 45 100 47 45 100 47 45 100 47 47 47 47 47 47 47 47 47 47 47 47 47	OU USE OR REFER TO PULSE W	CHA (PR)	6 #	100	92		0		47	\$	20	39	SII
PRF	OU USE ON REFER TO PULSE R	CURRENCE TIME (PR	40	100	42		10		0.6	43	35	35	non
N3-06 DO YOU USE OR REFER TO DIFFERENTIATING CIRCUITS N3-07 DO YOU USE OR REFER TO INTEGRATING CIRCUITS N3-07 DO YOU USE OR REFER TO INTEGRATING CIRCUITS N3-07 DO YOU USE OR REFER TO INTEGRATING TO THE CLASSITICATION OF TINE N3-07 DO YOU USE OR REFER TO INTEGRATING TO THE CLASSITICATION OF TINE N3-07 DO YOU USE OR REFER TO INTEGRATING TO THE CLASSITICATION OF TINE N3-07 DO YOU DETERNINE WHETHER AN LR OR RC CIRCUIT IS N3-07 DO YOU DETERNINE WHETHER AN LR OR RC CIRCUIT IS N3-07 DO YOU WORK WITH SQUARE WAVE GENERATORS N3-11 DO YOU WORK WITH SQUARE SYSTEMS N3-11 DO YOU WORK WITH SQUARE WASHIT OR RECEIVE CONDON WASHIT OR RECEIVE SYSTEMS N3-11 DO YOU WORK WITH SQUARE WASHIT OR RECEIVE CONDO NO NO NO NO NO WORK WITH SOME TRANSHIT OR RECEIVE SYSTEMS SYSTEMS N3-07 DO YOU NO	מח משב מא אבורבות זמ שחן שב א	CURKENCE PRESUENC	*	00				0	47	4.5	20	3.6	CIR
13	CR T.0	p-	2.1	0.9	75	ur	ď	10	26	2.6	28	26	DN
M3-08 DO YOU USE OR REFER TO THE CLASSIFICATION OF TIME 30 60 50 25 0 100 29 29 39 30 0 13-10 0 0 700 USE OR REFER TO THE CLASSIFICATION OF TIME 30 6 60 42 42 25 33 0 13 10 20 0 10 15 FERNAL WHETEVER AN LEGRATING DASED ON THE TIME CONSTANT 2 21 40 63 63 63 0 13 10 20 13 10 20 0 10 10 10 10 10 10 10 10 10 10 10 10	ER 70		30	001	15	20	9		37	33	95	26	IId
### CONSTANTS (TC) A\$ LONG, MEDIUM, OR SHORT ###################################	ER TO		30	60	0.5	0		10	53	2.9	30	1.1	AH
DIFFERENTIATING OR INTEGRATING BASED ON THE TIME CONSTANT AND DUTPUT CONFIGURATION CRAFTER THE CONSTANT AND DUTPUT CONFIGURATION AND DUTPUT CONFI	S (1C) AS LONG, MEDIUM, OR	TORT	,	0,							:		NES
AND DUTPUT CONFIGURATION AND LOUTPUT CONFIGURAT	TIATING OR INTEGRATING BA	ON THE TIME CONSTA	•	9	7		2		7	2	20	0	AW
National Control National National Control National Control National Control National National Control National Control National National National National National National National Nationa	NO												
13 0 56 56 0 0 0 0 21 19 25 14 0 70U MORK WITH RECTARGULER WAVE GENERATORS 15 0 56 56 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	DO YOU MORK WITH SQUARE WAVE	85	2.1	0.6	83	83			# 6	33	35	26	
DI-01 DO TOU MORK ON SINGLE SIDEBAND SYSTEMS IN YOUR Z 0 0 0 0 0 0 3 5 0 0 3 5 0 0 0 0 0 0 0 3 5 0 0 0 0	DO TOU BORK WITH RECTANGULAR	ERATORS	13	0	5.8	88	-	and the same of	21	6	52	17	
01=02 DD YOU INSPECT 559 TRANSMIT OR RECEIVE SYSTEMS 01=03 DO YOU INSPECT 559 TRANSMIT OR RECEIVE SYSTEMS 01=03 DO YOU LEAN 558 TRANSMIT OR RECEIVE 01=03 DO YOU ALIGN 558 TRANSMIT OR RECEIVE 01=05 DO YOU TROUBLESMOOT TO 558 TRANSMIT OR RECEIVE 01=05 DO YOU TROUBLESMOOT TO 558 TRANSMIT OR RECEIVE 01=05 DO YOU TROUBLESMOOT TO 558 TRANSMIT OR RECEIVE 01=05 DO YOU REMOVE OR REPLACE 558 TRANSMIT OR RECEIVE 01=05 DO YOU REMOVE OR REPLACE 558 TRANSMIT OR RECEIVE 01=05 DO YOU REMOVE OR REPLACE 558 TRANSMIT OR RECEIVE 01=05 DO YOU REMOVE OR REPLACE 558 TRANSMIT OR RECEIVE	DO YOU WORK ON SINGLE SIDEBAN	STEMS IN YO	2	0	0	0			٦	s	0	6	
01=03 DO TOU CLEAN SSB TRANSHIT OR RECEIVE 5 STEMS 01=03 DO TOU CLEAN SSB TRANSHIT OR RECEIVE 0 0 0 0 0 0 0 0 2 2 0 01=03 DO TOU ALIGN SSB TRANSHIT OR RECEIVE 0 0 0 0 0 0 0 2 2 0 01=05 DO TOU TROUBLESHOOT TO SSB TRANSHIT OR RECEIVE 0 0 0 0 0 0 0 0 2 2 0 01=05 DO TOU TROUBLESHOOT TO SSB TRANSHIT OR RECEIVE 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	TOU INSPECT SSR TRANSMIT	34545 31	d	0	C	c			2	0	c		
01-09 DO YOU ALLEM SSB FRANSHIT OR RECEIVE 0 0 0 0 0 0 0 2 2 0 0 0 0 0 0 0 2 2 0 0 0 0 0 0 0 0 2 2 0	DO TOU CLEAN SAB TRANSMIT OR	SYCTSES	> <	2 0	0 0	> 0			4 0	4 0	,	۲ (CIN
01-05 DO YOU TROUBLESHOOT TO \$56 TRANSHIT OR RECEIVE 0 0 0 0 0 0 0 2 2 0 0 0 0 0 0 0 0 2 2 0	DO YOU ALIEN 558 TRANSMIT OR	545	00	00	00	00			2 ^	0 0	00	0	PA.
SYSTEMS 01-06 DO TOU TROUBLESHOOT TO SSB TRANSHIT OR RECEIVE G G G G G G G G G G G G G G G G G G G	DO YOU TROUBLESHOOT TO SSB TRAN	SMIT OR RECE!	0	0	, 0	0 0			. ~	. 2	0		30)
COMPONENTS COMPONENTS COMPONENTS CONTROVE OR REPLACE SSB TRANSMIT OR RECEIVE 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0		4		,									IS :
DI-07 DO YOU REMOVE OR REPLACE 558 THANSMIT OR RECEIVE 0 0 0 0 0 0 0 0 0 0 0 0 SYSTEMS	ESMOOT TO 558 TR	IT ON RECEI	0	0	0	0			2	2	0	•	CLE
21212	OR REPLACE 558	ANSHIT OR	0	0	0	0			0	0	o	0	
652 01-08 DO VOU REMOVE OR REPLACE 558 FRANSMIT OR RECEIVE 0 0 0 0 0 0 0 0 0 2 2 2 0 4	REMOVE OR REPLACE 538	OR RECEIV	0	0	0	a			74	7	0	*	

PCT MBRS RESPONDING . YES . BY SELECTED GRPS

GPSH4B PAGE

3

SPC 075 0 4 0 SPC 074 000000000000000 0000 0 0 0 20 5PC 073 0 SPC 072 0 SPC 071 000000000000000 0000 0 0 0 00 5PC 070 000000000000000 0000 0 0 0 0 000000000000000 0000 0 0 0 5 PC SPC 047 0000 0 0 5PC 066 000000000000 00 0000 0 0 0 SPC 065 00000000000000 0000 0 0 0 20 390 000000000000000 0000 0 0 3 5.58 558 60 558 558 SSB FREQUENCY CONVERTERS DON'T REMEMBER WHICH AUDIO AMPLIFIERS BALANCED MODULATORS CARRIER OSCILLATORS OR EFFECTIVE POWER CRYSTAL FILTERS MECHANICAL FILTERS TRANSMITTERS

01-29 DO YOU TRACE SIGNALS OF CURRENT PATHS THROUGH

TRANSMITTER SCHEMATIC DIAGRAMS

01-30 DO YOU TRACE SIGNALS OR CURRENT PATHS THROUGH POWER AMPLIFIERS RECEIVER SCHEMATIC DIAGRANS 2-01 DO YOU WORK ON PULSE MODULATION SYSTEMS IN OR REFER TO SELECTIVE FADING
OR REFER TO PEAK POWER
OR REFER TO FREQUENCY STABILITY
OR REFER TO RESPONSE CURVES FOR SSB RF AMPLIFIERS DEHODULATORS OSCILLATORS DRIVERS 558 558 BANDWIDTH FILTERS 01-28 DO YOU CALCULATE PEAK POWER ž 2 2 Z Z Z NO 2 Z TASKS TASKS DY-TSK TASKS TASKS TASKS TASKS TASKS TASKS TASKS PERFORM PERFORM TASK GROUP SUMMARY PERCENT NEMBERS PERFORMING PERFORM DO YOU USE O DO YOU USE DO YOU USE SYSTEM STAGES 700 YOU NOA 100 YOU 400 0000000 00 00 000 PRESENT 61-10 01-22 000 01-18 01-24 01-25 01-26 01-27 01-12 01-13 91-10 61-10 01-20 01-21 01-17 872 873 874 866 871 875 853 857 858 859 940 861 843 864 845 698 870 0 0 0

MODULATION SYSTEMS 35 17 30 20 20 000 0 13 400 3 200 9 6 0 900 39 32 0000 00 0 000 00 00 00000 00 0 0 0 000 0 0 000 25 2 6 3 8 3 73 42 0000 20 20 20 0 000 9 7 9 0 12 Mu N PULSE-CODE MODULATION (PCM) SYSTEMS LINE PULSING MODULATION SYSTEMS DON'T REMEMBER WHICH TYPE OF REMOVE OR REPLACE PULSE MODULATION SYSTEMS REMOVE OR REPLACE PULSE MODULATION SYSTEM CLEAN PULSE MODULATION SYSTEMS
ALIGN PULSE MODULATION SYSTEMS
TROUBLESHOOT TO PULSE MODULATION SYSTEMS
TROUBLESHOOT TO PULSE MODULATION SYSTEM PULSE-AMPLITUDE MODULATION (PAH) PPH) MODULATION PULSE-POSITION MODULATION INSPECT PULSE MODULATION SYSTEMS ON PULSE-DURATION 0 . Z O NOO MODULATION SYSTEM MORK MORK MORK MORK HORK 100 100 400 YOU 400 100 400 100 100 400 200 400 100 COMPONENTS COMPONENTS 00 00 00 00 02-04 00 00 00 SYSTEMS STSTEMS SYSTEMS 02-12 01-20 20-20 02-03 90-20 02-00 02-07 02-08 02-14 02-04 878 880 883 877 8.8 885 888

7 4 5 K	GROUP SUMMARY												
PERCE	PERCENT MEMBERS PERFORMING												3
	0.Y=75K	0 8 8 0 0 8 8 0	2860	SPC 066	SPC 067	5 P C	5 P.C	SPC 071	5 P.C 072	5PC 073	5 P.C.	5 PC	
588 0	02-15 DO YOU PERFORM TASKS ON PULSE HODULATION SYSTEM	1.7	20	67	67	0	0	a	3.2	5.6	0 #	2.6	
0	**************************************	4	a	00 UN	60	c	0	c	27	2.6	3.0	2.6	
0	CHARBING DIODES				:					:	:		
0 841	BLI OF TORMING LETTINGS IN PULSE MODULATION SYSTEM		20	63	83	52	0	100	34	33	35	35	
268 0	FULLS TO YOU PERFORM TASKS ON PULSE MODULATION SYSTEM	6	20	90	20	0	0	a	3.6	52	30	26	
6 8 9 3	02-19 DO YOU PERFORM TASKS ON PULSE MODULATION SYSTEM		30	75	15	a	0	a	27	56	30	30	*
*68 0	SWITCHES SUCH AS GAS THYRATRONS 02-20 DO YOU PERFORM TANKS ON PULSE RODULATION SYSTEM	1.7	20	7.5	7.5	25	0	100	35	33	0	35	
8 9 5	S ON PULSE	1.7	20	83	83	25	0	100	34	33	35	35	
896	TASKS ON PULSE MODULATION SYST	23	20	10)	63	25	0	00	32	31	35	30	
000	A NOTE TO SERVICE THE SERVICE		20	75	7,5	2,6	0	0	2.3	21	25	22	
	The state of the s	.,				25	0	2 0	3.6	2.6	8	22	
0				:					. ;	;	:	:	***
0 8 4	DETECTORS	1.1	2	2	9	45	>	00	3	:	2	.,	
006 0	02-26 DO YOU PERFORM TASKS ON PULSE HODULATION SYSTEM	2.3	20	83	83	25	0	100	32	-	35	30	-
0 901	VIDEO AMPLIFIERS 02-27 DO YOU PERFORM TASKS ON PULSE MODULATION SYSTEM	17	20	75	75	0	0	0	26	54	30	26	
90.2	NO PULSE HODIL ATTOM	٠	0	25	25	c	0	c	•	5	10		
	SE HODULATION SYSTEM			:	:		C		9	:		:	
0 40	CPAFT	07	2	20	20	4.5		000			2		
	DO YOU USE OF REFER TO PULSE RECURA		20	7.5	75	0	0	0	90	2	35	35	
906	DO YOU USE OR REFER TO PULSE	26	20	83	83	0	0 0	0	0	8 6	5 .	56	2
404	DATES OF THE USE OF REFER TO PULSE SHAPE	67	200	7 6	2 4	62	00	000		2 5	200	16	
	DO YOU USE OR REFER TO	17	20	75	75	25	0	100	31	33	52	30	
606	DO YOU CALCULATE PULSE RECURRE	=	20	15	15	0	0	0	1.2	52	5	22	
010	RECURRENCE FREQUENCY (PRF) 02-34 DO YOU MEASURE PULSE RECURRENCE TIME (PRT) OR PULSE	91	20	15	75	25	0	100	3.0	36	30	2.6	-
													A character of the same of the
0 911	02-37 DO TOU USE FORMULAS TO CALCULATE AVERAGE POMER OR PEAK POWER OF PULSE MODULATION TRANSMIT SYSTEMS	•	2	2	2	0	9	۵	۰		s		
216 0	ATION TRACE SIGNALS OR CURRENT PA	12	20	15	15	25	0	100	3.6	0.	35	30	
614 0	02-39 DO YOU TRACE SIGNALS OR CURRENT PATHS THROUGH PULSE	56	20	75	75	25	0	100	5 +	5	45	35	2
	03-01 DO YOU MORK WITH ANTENNAS IN YOUR PRESENT JOB	74	909	50	60	100	100	001	97	4 8	06	1 4	
412	SECTION INSTRUCT ANTENNAS	0	2		*	200	201	200					

PCT MBRS RESPONDING .YES' BY SELECTED GRPS

GPSM48 PAGE 33

20											-	-		1
10 10 10 10 10 10 10 10	DY-75K	SPC 064	200	SPC 066	SPC 067	5 PC	070	5PC 071	SPC 072	SPC 073	SPC 074	SPC 075		- 1
Color Colo		90	3.0	0		9	0		44	43	10	20		
05-05 00 TOU REPUBLICATION ATTENANCE AND ATT	00 00 00 00	2 20	9 0	83	9 2	100	200	000	17	70	2 4	0 6		1
00-00 00 TOUR MERCANO TO ANTERNAS. 00-00 TOUR MERCANO TO ANTERNAS. 00-00 TOUR MERCANO TO ANTERNAS. 00-00 TOUR MERCANO TO THE GENERAL MERCANO TO THE ANTERNAS. 00-00 TOUR MERCANO TO THE GENERAL MERCANO TO THE ANTERNAS. 00-00 TOUR MERCANO TO THE GENERAL MERCANO TO THE ANTERNAS. 00-00 TOUR MERCANO TO THE GENERAL MERCANO TO THE ANTERNAS. 00-00 TOUR MERCANO TO THE GENERAL MERCANO TO THE ANTERNAS. 00-00 TOUR MERCANO TO THE GENERAL ME	CALCA CO. TO TATABLE ALLEN AND CO.	. 4			9 6	0 0	100	000	11	10	1 2	9 4		
Control Cont	מזרכה מס בס ברוב שוופא או	0 10	2 4	0 0	2 0	3	2	000	100	*		6.4	ANTENNAS	
Control Cont	00 00 00 00		7	7 0	7.0	000	00	0			0 0			
STATE CONTRIBUTE CONTRIBU	001 00 10-50	2	2	7,	1	001	201	0	9		2			1
	03-08 DO YOU REMOVE OR INSTALL ANTE	2	*	42	4 5	100	001	001	10		0/	- :		
REPRESENTATIONS OF OR ELECTRICAL DITA CONTAINING 11 NG 33 33 0 0 0 13 14 10 17 REPRESENTATIONS OF OR ELECTRICAL DITA CONTAINING 7 NG 33 33 0 0 0 13 14 10 17 REPRESENTATIONS OF OR ELECTRICAL DITA CONTAINING 7 NG 33 33 0 0 0 13 14 10 17 REPRESENTATIONS OF OR ELECTRICAL DITA CONTAINING 7 NG 33 33 0 0 0 13 14 10 17 REPRESENTATIONS OF OR ELECTRICAL DITA CONTAINING 7 NG 9 NG 9 10 10 10 10 10 10 10 10 10 10 10 10 10	03-09 DO YOU REMOVE OR REPLACE COMP	99	20	92	92	001	001	100	16	-	8 2	63		1
	03-10 DO YOU USE ON REFER TO TECHNI	=	9	33	33	0	0	0	13	*	01	1.7		-
NEW PRESENT OF TECHNISH TO STATE LANGE TO STATE STAT	REPRESENTATIONS OF E OR ELECTRIC FIELD LINES													1
NETRIESTO TO THE THE OFFICE FOR THE NAGNETIC LINES NETRIESTO TO THE NATIONAL THE DIRECTION OF THE NAGNETIC LINES NATIONAL SHORT HE DIRECTION OF THE NAGNETIC LINES NATIONAL SHORT HE DIRECTION OF THE NAME HE NAME NAGNETIC LINES NATIONAL SHORT HE DIRECTION OF THE NAME HE NAME NAGNETIC LINES NATIONAL SHORT HE NAME THE DIRECTION OF THE NAME NAME NAGNETIC LINES NATIONAL SHORT HE NAME NATIONAL NAME NAME NAME NAME NAME NAME NAME NAME	*	•	9	33		0	0	0		*	0	11		
1 N RELETION TO THE ELECTRIC LINES OF THE AGENTAL LINES 1 N RELETION TO DETERMINE THE DIFFERITION OF THE AGENTAL S 1 N RELETION TO THE ELECTRIC LINES OF FORCE TOR AMERINAS 1 N RELETION TO THE ELECTRIC LINES OF FORCE TOR AMERINAS 2 ATTEMAS WHICH ARE OF CORRECT LENGTH (LAIL—MAYER TALK TATAMENAS 4 N TATEMAS WHICH ARE OF CORRECT LENGTH (LAIL—MAYER TALK TATAMENAS 3 D S S S S S S S S S S S S S S S S S S	REPRESENTATIONS OF H OR MAGNETIC FIELD LIN	-					-	-		-				1
	03-12 DO YOU DETERMINE THE DIRECTION OF THE	•	•	52	52	0	٥	a		0	10	-		
ANTENNAS WITCH ARE OF CORRECT LEGISTAL HAFF-ALLE THAT ANTENNAS 6 20 25 25 0 0 0 0 5 7 0 0 10 0 0 1 1 0 0 1 0 0 1 0 1 0 1 0	IN WELATION TO THE ELECTRIC LINES OF FORCE	•		!								•	And in comments and in con-	1
	THE BUILD DO NOT THE BENEAUT WITH THE SENSE OF THE SENSE	10	20	-		57	2	0	^		0	•		
10 10 10 10 10 10 10 10	CHALL MALL BOLD		-	-					-	-			-	
HIGH ARE LONGER THAN A HALF-MAVE ACT AS INDUCTIVE LOADS 10 TO THE GENERATOR HIGH ARE SHORTER THAN A HALF-MAVE ACT AS CAPACITIVE LOADS 10 TO THE GENERATOR HIGH ARE SHORTER THAN A HALF-MAVE ACT AS CAPACITIVE LOADS 10 TO THE GENERATOR 10 TO THE GENERATOR 11 TO THE GENERATOR 12 TO THE GENERATOR 13 TO THE GENERATOR 14 TO THE GENERATOR 15 TO THE GENERATOR 16 TO THE GENERATOR 17 TO THE GENERATOR 18 TO THE GENERATOR 18 TO THE GENERATOR 19 TO THE GENERATOR 19 TO THE GENERATOR 19 TO THE GENERATOR 10	DATE OF YOU USE OR REFER TO THE SENERAL RULE THAT ANTERNA	4	20	25	25	c	0	C	S	1	0	•		
13-15 DO TONG USE OF REFER TO THE GENERAL RULE THAT ANTENNAS 2 20 8 8 25 33 0 5 7 0 0 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	MAICH ARE LONGER TALN & HALF-MANE ACT AS INDUCTIVE LOADS							2					The second secon	1
03-15 DO TOU USE OR REFER TO THE CENERAL RULE TANT ANTEHNAS 2 20 8 6 25 33 0 5 7 0 0 10 10 11 10 10														
MICH ARE SHORTER THAN A HALF-MAVE ACT AS CAPACITIVE LOADS WITCH ARE SHORTER THAN A HALF-MAVE ACT AS CAPACITIVE LOADS 03-16 DO YOU WORK WITH HERIZ ANTENNAS 03-16 DO YOU WORK WITH HERIZ ANTENNAS 03-16 DO YOU WORK WITH BROADSIDE RRAYS 03-19 DO YOU WORK WITH BROADSIDE RRAYS 03-19 DO YOU WORK WITH CAPACONI ANTENNAS 03-20 DO YOU WORK WITH CAPACONI ANTENNAS 03-20 DO YOU WORK WITH CAPACONI ANTENNAS 03-21 DO YOU WORK WITH CAPACONI ANTENNAS 03-22 DO YOU WEASURE ELECTROMAGNETIC INDUCTION FIELDS OF	8 03-15 DO YOU USE OR REFER TO THE GENERAL RU	2	20	80	0	25	33	0	2	1	0	•		-
TO THE GENERATOR TO THE GENERAL OF THE WAS NOT THE GENERAL OF THE WORK WITH HERIZ ANTENNAS 03-19 DO TOU WORK WITH ENDERINE ARRAYS 03-20 DO TOU WORK WITH ENDERINE ARRAYS 03-21 DO TOU WORK WITH ENDERINE ARRAYS 03-22 DO TOU WORK WITH ENDERINE ARRAYS 03-23 DO TOU WORK WITH ENDERINE ARRAYS 03-23 DO TOU WORK WITH ENDERINE ARRAYS 03-23 DO TOU WORK WITH MATERNAS 03-23 DO TOU WORK WITH WORK ING WITH ARTENNAS 03-24 DO TOU USE OR REFER TO THE TERM ELECTROMAGNETIC 03-25 DO TOU MEASURE ELECTROMAGNETIC ARDIATION 03-25 DO TOU MEASURE ELECTROMAGNETIC ARDIATION 03-25 DO TOU WORK WITH WORK ING WITH ARTENNAS 03-26 DO TOU MEASURE ELECTROMAGNETIC ARDIATION 03-27 DO TOU USE OR REFER TO THE TIME PHASE OF ELECTRIC (E) 9 0 17 17 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	ACT AS													•
03-16 DO YOU WORK WITH MERCONI ATERNAS 03-16 DO YOU WORK WITH MERCONI ATERNAS 03-16 DO YOU WORK WITH MERCONI ATERNAS 03-19 DO YOU WORK WITH MERCONI ATERNAS 03-19 DO YOU WORK WITH MERCONI ATERNAS 03-19 DO YOU WORK WITH MERCONI ATERNAS 03-20 DO YOU WEASURE ELECTROMAGNETIC 10-20 DO YOU WEASURE ELECTROMAGNETIC 10-20 DO YOU WEASURE ELECTROMAGNETIC REDITION FIELDS OF WITH MERCONI AMERINAS 03-20 DO YOU WEASURE ELECTROMAGNETIC REDITION FIELDS OF WITH MERCONI AMERINAS 03-20 DO YOU WEASURE ELECTROMAGNETIC REDITION FIELDS OF WITH MERCONI AMERINAS 03-20 DO YOU WEASURE ELECTROMAGNETIC REDITION FIELDS OF WITH MERCONI AMERINAS 03-20 DO YOU WEASURE ELECTROMAGNETIC REDITION FIELDS OF WITH MERCONI AMERINAS 03-20 DO YOU WEASURE ELECTROMAGNETIC REDITION FIELDS OF WITH MERCONI AMERINAS 03-20 DO YOU WEASURE ELECTROMAGNETIC REDITION FIELDS OF WITH MERCONI AMERCONI AMERINAS 03-20 DO YOU WEASURE ELECTROMAGNETIC REDITION FIELDS OF WITH MERCONI AMERINAS 03-20 DO YOU WEASURE ELECTROMAGNETIC REDITION FIELDS OF WITH MERCONI AMERINAS 03-20 DO YOU WEASURE ELECTROMAGNETIC REDITION FIELDS OF WITH MERCONI AMERINAS 03-20 DO YOU WEASURE ELECTROMAGNETIC REDITION FIELDS OF WITH MERCONI AMERINAS 03-20 DO YOU WEASURE ELECTROMAGNETIC REDITION FIELDS OF WITH MERCONI AMERINAS 03-20 DO YOU WEASURE AMERINAS TOU WORK ON LINEARMAS 03-20 DO YOU WEASURE AMERINAS OF CORRECT LEMATH FOR THE WORK ON THE WITH WEATHER THE CALCULATIONS 2 DO YOU WEASURE AMERINAS OF CORRECT LEMATH FOR THE WORK ON THE WEATHER WITH WEATHER WITH WEARTH WE WAS ANTERNAS OF WORK ON THE WEATHER WITH WEATHER WEATHER WITH WEATHER WEATHER WITH WEATHER WEATHER WEATHER WITH WEATHER WEATHER WEATHER WEATHER WITH WEATHER WEAT									0					
03-19 DO TOU MORK WITH BROADSIDE ARRAYS 03-20 DO TOU WORK WITH BROADSIDE ARRAYS 03-21 DO TOU WORK WITH BROADSIDE ARRAYS 03-21 DO TOU WORK WITH CARDIOID ARRAYS 03-22 DO TOU WORK WITH CARDIOIN FIELDS OF WITH CARDIOIN FIELDS WITH WATEHWAS 03-23 DO TOU WAS UNE ELECTROMAGNETIC INDUCTION FIELDS OF WITH CARDIOIN FIELDS WITH WORTH WATEHWAS 03-24 DO TOU WAS UNE ELECTROMAGNETIC RADIATION 03-25 DO TOU WAS UNE REER TO THE TIME PHASE OF ELECTRIC (E) WITH CARDIOIN FIELD WAS UNDER MAS OF CARDINARY SIDLY WORK ON LINEARLY OF AND MAGNETIC (H) COMPONENTS IN ANTENNAS TOU WORK ON LINEARLY OF AND MAGNETIC (H) COMPONENTS IN ANTENNAS TOU WORK ON LINEARLY OF THE WASTALLY OF ANTENNAS TOU WORK ON LINEARLY OF THE WASTALLY	03-16 DO YOU WORK WITH HERTZ ANTENN	0	20	0	0	20	33	100	-	-	0	2		-
19 00 700 WORK WITH END-EPER ARRAYS 03-219 00 700 WORK WITH END-EPER ARRAYS 03-22 00 700 WORK WITH END-EPER ARRAYS 03-22 00 700 WORK WITH END-EPER ARRAYS 03-22 00 700 WORK WITH END-EPER ARRAYS 03-23 00 700 USE ON FEFER TO THE TERM ELECTROMAGNETIC 1 LADUCTION PIELDS WHEN WORKING WITH ANTENNAS 03-24 00 700 USE ON REFER TO THE TERM ELECTROMAGNETIC 1 LADUCTION PIELDS WHEN WORKING WITH ANTENNAS 03-25 00 700 USE ON REFER TO THE TIME PHASE OF ELECTROMAGNETIC 1 LADUCTION FILEDS WHEN WORKING WITH ANTENNAS 1 LO TO	OS-17 DO TOU WORK WITH MARCON! AN	7	20	0	0	0	0 1	0	~ .	*	n i	0		
03-21 DO TOU WORK WITH CALLINEAR ARRAYS 03-22 DO TOU WORK WITH CALLINEAR ARRAYS 03-23 DO TOU WEASURE ELECTROMAGNETIC 03-23 DO TOU WEASURE ELECTROMAGNETIC NDUCTION FIELDS WHEN WORKING WITH ANTENNAS 03-24 DO TOU WEASURE ELECTROMAGNETIC RADIATION 03-25 DO TOU WEASURE CALCARANA MATERNAS TOU WORK ON LINEARLY 03-25 DO TOU WEASURE CALCARANA MATERNAS TOU WORK ON LINEARLY 03-25 DO TOU WEASURE CALCARANA MATERNAS TOU WORK ON LINEARLY 03-25 DO TOU WEASURE OR DETERMINE THE POLARITY OF AMTERNAS TOU WORK ON LINEARLY 03-25 ARR EART OF THE ANTENNAS TOU WORK ON LINEARLY 03-25 ARR EART OF THE ANTENNAS TOU WORK ON LINEARLY 03-25 ARR EART OF THE ANTENNAS TOU WORK ON CIRCULATIONS 03-25 ARR EART OF THE ANTENNAS TOU WORK ON CIRCULATIONS 03-25 ARR EART OF THE ANTENNAS OF CORRECT LENGTH FOR MATERIAL MATERNAS TOU CONSTRUCT, ON THE CALCULATIONS 03-25 ARR EART OF CONSTRUCT, ANTENNAS OF CORRECT LENGTH FOR MATERIAL MATERNAS TOU CONSTRUCT, ANTENNAS OF CORRECT LENGTH FOR MATERIAL MATERNAS OF CORRECT LENGTH FOR MATERIAL MA	03-18 DO TOU MORK WITH BROADSIDE	0	20	a	0	a	0	a	· a	0	· •			
03-22 DO TOU WORK WITH CARDIDIO MARAYS 03-22 DO TOU WORK WITH CALLINEAR ARRAYS 03-22 DO TOU WORK WITH COLLINEAR ARRAYS 03-22 DO TOU USE OR REFER TO THE TERM ELECTROMAGNETIC 03-22 DO TOU USE OR REFER TO THE TERM ELECTROMAGNETIC 03-23 DO TOU USE OR REFER TO THE TERM ELECTROMAGNETIC 03-24 DO TOU USE OR REFER TO THE TERM ELECTROMAGNETIC 03-25 DO TOU USE OR REFER TO THE TERM ELECTROMAGNETIC 03-25 DO TOU USE OR REFER TO THE THE PHASE OF ELECTROMAGNETIC 03-25 DO TOU USE OR REFER TO THE THE PHASE OF ELECTRIC (E) 4 0 17 17 0 0 0 0 0 7 10 03-25 DO TOU USE OR REFER TO THE THME PHASE OF ELECTRIC (E) 4 0 17 17 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	03-19 DO YOU WORK WITH END-FIRE A	*	20	0	0	0	0	0	-	-	s	•		
03-22 DO TOU UNCH MITH COLLINEAR MARYS 03-22 DO TOU UNCH MITH COLLINEAR MARYS 03-22 DO TOU UNCH MITH COLLINEAR MARYS 03-22 DO TOU UNCH MEANING WITH ANTERNAS 03-23 DO TOU UNCH MEASURE ELECTROMACHETIC INDUCTION FIELDS OF 4 20 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	03-20 DO TOU WORK WITH CARDIOID AFRA	0	20	0	0	25	0	100	~		0	•		
03-22 DO TOU USE ON REFER TO THE TERM ELECTROMAGNETIC 03-23 DO TOU WEADWAY ELECTROMAGNETIC INCUTION FIELDS OF 4 20 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	03-21 DO TOU WORK WITH COLLINEAR AR	7	50	•	00	0	0	0	0	0	0			
193-23 DO YOU MEASURE ELECTROMAGNETIC INDUCTION FIELDS OF 4 20 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	03-22 DO YOU USE ON REFER TO THE TE	•	20	80		٥	0	a		1	0	•		
AMTENNAS 03-24 DO YOU USE OR REFER TO THE TERM ELECTROMAGNETIC RADIATION FIELDS WHEN WORKING WITH ANTENNAS 03-24 DO YOU USE OR REFER TO THE TIME PHASE OF ELECTRIC (E) 4 0 17 17 0 0 0 0 0 0 0 7 10 FIELDS OF ANTENNAS 03-25 DO YOU USE OR REFER TO THE TIME PHASE OF ELECTRIC (E) 4 0 17 17 0 0 0 0 0 7 10 AND MAGNETIC (H) COMPONENTS IN ANTENNA RADIATION 03-25 DO YOU USE OR REFER TO THE TIME PHASE OF ELECTRIC (E) 4 0 17 17 0 0 0 0 0 7 10 AND MAGNETIC (H) COMPONENTS IN ANTENNA RADIATION FIELD AND MAGNETIC (H) COMPONENTS IN ANTENNA RADIATION FIELD AND MAGNETIC (H) COMPONENTS IN ANTENNA RADIATION FIELD AND MAGNETIC (H) COMPONENTS IN ANTENNA RADIATIONS DOLARIZED O3-29 ARE ANT OF THE ANTENNAS TOU WORK ON CIRCULARLY FOLARIZED O3-30 O YOU WEASURE OR DETERMINE THE POLARITY OF ANTENNAS TOU WORK OW O3-31 DO YOU CONSTRUCT, ANTENNAS OF CORRECT LENGTH FOR SUFCIFIC MAGNETICS DO YOU CONSTRUCT, ANTENNAS OF CORRECT LENGTH FOR SUFCIFIC MAGNETICS AND WORK OW SUFCIFIC MAGNETICS DO TO TO THE ANTENNAS OF CORRECT LENGTH FOR SUFCIFIC MAGNETICS DO TO TO THE ANTENNAS OF CORRECT LENGTH FOR SUFCIFIC MAGNETICES DO TO TO THE ANTENNAS OF CORRECT LENGTH FOR	A DA-23 DO YOU MEACURE ELECTROMACHETIC INSIGNAS	1	00	c	c	c	c		•	-	4	•		
03-29 DO YOU USE OR REFER TO THE TERM ELECTROMAGNETIC RADIATION FIELDS WHEN WORKING WITH ANTENNAS RADIATION FIELDS WHEN WORKING WITH ANTENNAS BAD-25 DO YOU WEASURE ELECTROMAGNETIC RADIATION FIELDS OF ANTENNAS 03-26 DO YOU USE OR REFER TO THE TIME PHASE OF ELECTRIC (E) 4 0 17 17 0 0 0 0 0 7 10 AND MAGNETIC (H) COMPONENTS IN ANTENNA RADIATION 03-26 DO YOU USE OR REFER TO THE TIME PHASE OF ELECTRIC (E) 4 0 17 17 0 0 0 0 0 7 10 AND MAGNETIC (H) COMPONENTS IN ANTENNA INDUCTION FIELD AND MAGNETIC (H) COMPONENTS IN ANTENNA INDUCTION FIELD 9 20 17 17 25 33 0 63 69 60 60 60 60 60 60 60 60 60 60 60 60 60	ANTENNAS		2	0	•	9	•	2	•	2	n			
RADIATION FIELDS WHEN WORKING WITH ANTENNAS 03-25 DO 700 WEASSURE ELECTRONAGNETIC RADIATION FIELDS OF YOU WEASSURE ELECTRONAGNETIC RADIATION 03-25 DO 700 USE OR REFER TO THE TIME PHASE OF ELECTRIC (E) 4 0 17 17 0 0 0 0 0 7 10 AND MAGNETIC (H) COMPONENTS IN ANTENNA RADIATION 03-26 DO 700 USE OR REFER TO THE TIME PHASE OF ELECTRIC (E) 4 0 17 17 0 0 0 0 0 6 7 10 AND MAGNETIC (H) COMPONENTS IN ANTENNA INDUCTION FIELD 03-27 DO 700 USE OR REFER TO THE TIME PHASE OF ELECTRIC (E) 4 0 17 17 25 33 0 63 69 60 6 POLARIZED 03-28 ARE ANY OF THE ANTENNAS YOU WORK ON LINEARLY 03-29 ARE ANY OF THE ANTENNAS YOU WORK ON LINEARLY 03-30 OF YOU WEASURE OR DETERMINE THE POLARITY OF ANTENNAS Z ZU 17 17 0 0 0 0 9 0 9 8 25 9 700 WORK DW 03-31 DO YOU CONSTRUCT, OR MAKE THE CALCULATIONS 2 Z O 8 8 0 0 0 0 2 2 2 0	03-24 DO YOU USE OR REFER TO THE TE	•	20	33		25	0	100		• -	1 5	•		•
03-25 DO TOU MEASURE ELECTROMAGNETIC RADIATION 03-25 DO TOU WEASURE ELECTROMAGNETIC RADIATION 03-26 DO TOU USE OF ANTENNAS 03-27 DO TOU USE OR REFER TO THE TIME PHASE OF ELECTRIC (E) 4 0 17 17 0 0 0 0 0 7 10 AND MAGNETIC (H) COMPONENTS IN ANTENNA RADIATION 03-27 DO TOU USE OR REFER TO THE TIME PHASE OF ELECTRIC (E) 4 0 17 17 0 0 0 0 0 6 7 10 03-27 DO TOU USE OR REFER TO THE TIME PHASE OF ELECTRIC (E) 4 0 17 17 25 33 0 63 64 60 6 03-27 ARE ANY OF THE ANTENNAS TOU WORK ON LINEARLY 03-28 ARE ANY OF THE ANTENNAS TOU WORK ON LINEARLY 03-30 GOV ON MEASURE OR DETERMINE THE POLARITY OF ANTENNAS Z ZU 17 17 0 0 0 0 40 48 25 4 TOU WORK ON 03-31 DO TOU CONSTRUCT, OR MAKE THE CALCULATIONS 03-31 DO TOU CONSTRUCT, ANTENNAS OF CORRECT LENGTH FOR	I													
03-26 DO TOU USE OR REFER TO THE TIME PHASE OF ELECTRIC (E) 4 0 17 17 0 0 0 0 6 7 10 AND MAGNETIC (H) COMPONENTS IN ANTENNA RADIATION 03-27 DO TOU USE OR REFER TO THE TIME PHASE OF ELECTRIC (E) 4 0 8 6 0 0 0 6 7 10 03-28 ANE AND THE ANTONINTS IN ANTENNA INDUCTION FIELD 03-28 ANE ANT OF THE ANTENNAS TOU WORK ON LINEARLY POLARIZED 03-29 ANE ANT OF THE ANTENNAS TOU WORK ON LINEARLY 03-30 OF TOU WEASURE OR DETERMINE THE POLARITY OF ANTENNAS TOU WORK ON TOU WORK ON 03-31 DO TOU CONSTRUCT, OR MAKE THE CALCULATIONS 2 2 0 6 0 0 0 2 2 2 0 3-31 DO TOU CONSTRUCT, ANTENNAS OF CORRECT LENGTH FOR	03-25 DO YOU MEASURE ELECTROMAGNETIC	٥	20	a	0	a	0	a	.00	0	s	•		
AND MAGMETIC (H) COMPONENTS IN ANTENNA RADIATION 03-27 DO TOU USE OR REFER TO THE TIME PHASE OF ELECTRIC (E) 4 0 8 6 0 0 0 6 7 10 03-28 ARE ANY OF THE ANTENNAS YOU WORK ON LINEARLY 03-28 ARE ANY OF THE ANTENNAS YOU WORK ON LINEARLY 03-29 ARE ANY OF THE ANTENNAS YOU WORK ON LIREARLY 03-30 AS ARE ANY OF THE ANTENNAS YOU WORK ON CIRCULARITY OF ANTENNAS Z ZU 17 17 0 0 0 0 46 71 40 7 700 MORK ON 03-30 BO YOU CONSTRUCT, OR MAKE THE CALCULATIONS 03-31 BO YOU CONSTRUCT, OR MAKE THE CALCULATIONS	03-26 DO YOU USE OR REFER TO THE TIME PHASE OF FLECTRIC	#	0	1.4	1.7	c	0	C	60	1	10	•		
03-27 DO YOU USE OR REFER TO THE TIME PHASE OF ELECTRIC (E) 4 0 8 6 0 0 0 0 8 7 10 AND MAGNETIC (H) COMPONENTS IN ANTENNA INDUCTION FIELD AND MAGNETIC (H) COMPONENTS IN ANTENNA INDUCTION FIELD 03-28 ARE ANY OF THE ANTENNAS YOU WORK ON LINEARLY 9 20 17 17 25 33 0 63 64 60 6 FOLARIZED 03-39 ARE ANY OF THE ANTENNAS YOU WORK ON CIRCULARLY 9 0 17 17 0 0 0 0 46 71 60 7 90 3-30 GO YOU MEASURE OR DETERMINE THE POLARITY OF ANTENNAS Z ZU 17 17 0 0 0 0 40 48 25 4 70 WORK ON 03-31 DO YOU CONSTRUCT, OR MAKE THE CALCULATIONS 2 20 8 8 0 0 0 2 2 2 0 SUPPLIFIES MAYELLE CONSTRUCT, RANTENNAS OF CORRECT LENGTH FOR	AND MAGMETIC (H) COMPONENTS IN ANTENNA RADIATION													
AND MAGMETIC (H) COMPONENTS IN ANTENNA INDUCTION FIELD 03-28 ARE ANY OF THE ANTENNAS YOU WORK ON LINEARLY POLARIZED 9 20 17 17 25 33 0 63 69 60 6 POLARIZED 03-30 00 YOU MEASURE OR DETERMINE THE POLARITY OF ANTENNAS 2 20 17 17 0 0 0 9 9 77 60 48 25 9 700 MORK ON MECESSAID OF YOU CONSTRUCT, ANTENNAS 0F CORRECT LENGTH FOR SPECIFIC MATERIALS 2 20 6 8 8 0 0 0 2 2 2 0	03-27 DO YOU USE OR REFER TO THE TIME PHASE OF ELECTRIC	*	0	60	9	0	0	0	0	1	01	•		
03-26 AME ANY OF THE ANTENNAS YOU WORK ON LINEARLY POLARIZED 9 20 17 17 25 33 0 63 69 60 6 9 19 17 17 25 33 0 63 69 60 6 9 19 18 18 18 18 18 18 18 18 18 18 18 18 18	AND MAGNETIC (H) COMPONENTS IN ANTENNA INDUCTION FIELD													
POLARIZED 903-29 ARE ANT OF THE ANTENNAS TOU WORK ON CIRCULARLY 903-30 DO TOU MEASURE OR DETERMINE THE POLARITY OF ANTENNAS 700 WORK OW 903-31 DO TOU CONSTRUCT, OF MAKE THE CALCULATIONS 82 20 8 8 8 D 0 0 2 2 0 82 20 8 8 8 D 0 0 2 2 2 0	03-28 ARE ANY OF THE ANTENNAS TOU WORK ON LINE	•	20	17		25		0			09	-		1
DOLATIZATION THE ANTENNAS TOU MUNK ON CINCULARLY DOLATIZATION MEASURE OR DETERMINE THE POLARITY OF ANTENNAS 2 2 20 17 17 0 0 0 40 48 25 4 TOU WORK OW MELESSAN TO CONSTRUCT, OR MAKE THE CALCULATIONS SPECIFIC CONSTRUCT, ANTENNAS OF CORRECT LENGTH FOR	POLARIZED	,					(;				
DATE OF THE POLARITY OF AMTERNAS 2 20 17 17 0 0 0 90 98 25 TOU WORK ON WELSTRUCT, OR MAKE THE CALCULATIONS MELESTRY TO CONSTRUCT, ANTERNAS OF CORRECT LENGTH FOR	DOLLA AND AND OF THE ANTENNAS TOU MUNK ON		5	1.1		0	3	0			9			
YOU WORK OW # 03-31 DO YOU CONSTRUCT, OR MAKE THE CALCULATIONS RECESSANT TO CONSTRUCT, ANTERNAS OF CORRECT LENGTH FOR SUPECIFIC MAKETHE CALCULATIONS SUPECIF	DO3-30 DO YOU MEASURE OR DETERMINE THE POLARITY OF ANTENNA	2	20	17	17	a	0	0		8	25			-
4 03-31 DO YOU CONSTRUCT, OR MAKE THE CALCULATIONS 2 20 8 0 0 0 2 2 Z NECESSARY TO CONSTRUCT, ANTENNAS OF CORRECT LENGTH FOR														
CONNECT LENGTH Y	4 03-31 DO YOU CONSTRUCT, OR MAKE THE CALCULATIONS	2		60	9	a	0	a	~	2	0	o -		
	CONNECT LENGTH Y													

PCT MBRS RESPONDING "YES" BY SELECTED GRPS

GROUP SUNNARY

TASK

GPSM9B PAGE

TRANSMISSION LINES 5PC 075 . 0 39 4 3 6 5 PC ~ 7.4 SPC in a ~ ~ SPC C a 3 PC SPC 6.7 SPC 064 2 - 2 - 2 PI-18 DO TOU PERFORM THE CALCULATIONS MECESSARY TO DETERMINE THE INFEDANCE AND LENGTH OF QUARTER - MAVELENGTH MATCHING TRANSMISSION LINES TO LOADS TRANSMISSION LINES P 955 PI-03 DO YOU REFER TO OR USE SKIN EFFECTS OF HIGH FREQUENCY 03-32 DO THE ANTENNA ARRAYS YOU WORK WITH CONTAIN PARASITIC CONTAIN PARASITIC PARASIT1C P 956 PI-04 DO YOU REFER TO OR USE RADIATION LOSS IN TRANSMISSION OR REFER TO LEAKAGE LOSSES IN TRANSMISSION YOU WORK WITH TWIN LEAD TRANSMISSION LINES YOU WORK WITH OPEN TWO-WIRE TRANSMISSION LINES YOU WORK WITH FLEXIBLE COAXIAL CABLE TRANSMISSION LINES (TRANSMISSION LINES ARE DEFINED TO INCLUDE LEADS
BETWEEN RECEIVERS AND ANTENNAS, TELEPHONE LEADS, AS MELL
AS HIGH VOLTAGE POWER LINES, ETC. DO NOT CONSIDER P 964 PI-IZ DO TOU TROUBLESHOOT TRANSHISSION LINES
P 965 PI-IS DO TOU ANALYZE VOLTAGE OR CURRENT WAVEFORMS IN
TRANSMISSION LINES TO DETERNINE THE TYPE OF TERMINATION
(OPEN, SHORTED, CAPACITIVE, INDUCTIVE)
P 966 PI-I4 DO TOU SELECT APPROPRIATE TRANSMISSIOM LINES
TERMINATIONS TO ACHIEVE DESIRED WAVEFORMS T. NOO WAVEGUIDES AS TRANSMISSION LINES
P 954 PI-02 DO YOU REFER TO OR USE COPPER LOSS OR 12R LOSS IN 852 03-39 DO YOU WORK WITH ROTAR ANTENNA ARRAYS 953 PI-DI IN YOUN PRESENT JOB DO YOU WORK WITH TRANSMISSION DO YOU WORK WITH RIGID COAXIAL CABLE TRANSMISSION P 967 P1-15 DO YOU USE OF REFER TO SCHEMATIC SYNBOLS FOR LINE TERNINATIONS IN TERMS OF CIRCUIT TERNINATIONS DO YOU WORK ON UNIDIRECTIONAL ANTENNAS
DO YOU WORK ON BIDIRECTIONAL ANTENNAS
DO YOU WORK ON DON'T REMEMBER THE DIRECTIONALITY DO TOU WORK WITH THISTED PAIR TRANSMISSION LINES ELEMENTS SERVING AS REFLECTORS 03-35 DO THE ANTENNA ARRAYS YOU NORK MITH CONTAIN CONTAIN P 969 PI-17 DO TOU CALCULATE STANDING MAYE RATIOS (SWR) P 968 PI-16 DO YOU MEASURE STANDING MAVE RATIOS (SR) OF P 957 PI-05 DO YOU USE OR REFER TO DIELECTRIC LOSS IN TRANSMISSION LINES 3-33 DO THE ANYENNA ARRAYS YOU MORK MITH ELEMENTS SERVING AS DIRECTORS E 1 4 E OS-34 DO THE ANTENNA ARRAYS YOU WORK RENEMBER WHAT KIND OF ELEMENTS CURRENTS IN TRANSMISSION LINES PERCENT NEMBERS PERFORMING RANSHISSION LINES RAMSMISSION LINES 958 PI-06 DO YOU USE DO YOU 03-33 DO THE ELEMENTS P1-10 D0 P1-08 DO INES LINES 03-36 03-38 03-37 日本の 986 0

PCT MBRS RESPONDING .YES. BY SELECTED GRPS

GPSH48 PAGE 35

TASK GROUP SUMMARY PERCENT MEMBERS PERFORMING

DY-TSK		240	065 0	0 990	067 0	0 690	070	071	072 0	073 074	4 075		
N LINES WHICH ARE	HATCHED	~	20	33	33	25	0	00	~	0	0	0	
TO LODD COME TATOL SANGRONDERS													
N LINES WHICH ARE	MATCHED	~	20	00	•	a	0	0	0	0	0	a	
ANSMISSION LINE	NEEDED	•	0	0	0	0	0	0	۳	0	0	0	
FOR PARTICULAR JOBS WITHOUT REFERRING TO TECHNIC	ATA												
THE STATE OF THE OF TRANSMISSION INTO		7	0	57	52	0	2	0	,	0	•	0	1
P 975 P1-23 DO YOU CALCULATE THE CHARACTERISTIC IMPEDANCE (20)	30 (0Z	~	20	0	0	0	0	a	0	0	0	0	-
TRANSMISSION LINES													
P 976 PI-24 DO YOU USE OR REFER TO THE TERM CUTOFF FREQUENCY	¥ 0£	2	0		-	a	0	a	0	0	0	0	1
P 977 PI-25 DO YOU USE OR REFER TO THE TERM VELOCITY FACTOR (K)	(K)	2	0	0	٥	a	0	a	0	0	0	0	1
OF TRANSHISSION LINES													
THE PARK THE PORT OF THE PRECISE OF TRANSMISSION OF TRANSMISSION	NO 155	2	0	17	17	a	0	0	0	0	a	0	
P 979 P1-27 DO YOU CONSTRUCT TRANSMISSION LINES OF PARTICULAR	*	7	0	17	17	a	0	a	0	0	0	0	1
ELECTRICAL LENGTH FOR GIVEN PREQUENCIES													
ENERAL RULE THAT	AS THE	~	0	17	17	35	0	00	0	0	0	0	1
ICAL	LENGTH												7
INCREASES													
P 981 PI-29 DO TOU MORK MITH NONRESONANT (FLAT) TRANSMISSION	×	7	0	0	0	25	0	00	0	0	0	0	- 1
982 PI-30 DO YOU WORK WITH RESONANT TR		•	20	0		25	-	00	~				
N LINES WHICH ARE	MATCHED	*	20		25	25	0	00	0	0	0	0	
TO LOADS USING STUB MATCHING													- 1
	NI S	75	0.0	42	9.2	75	67 1	00		29 8	85 83		
TOUR PRINCES OF CO. OF CO.			00										1
986 P2-03 DO YOU CLEAN WAVEGUIDES OR CAVITY RE		0	20					3		88	40 67		
987 P2-04 DO YOU BEND WAVEGUIDES OR CAVITY		23	20	52	15		0	0	31	38		AND CAVITY	9
988 PZ-05 DO TOU THIST MAVEGUIDES OR CAVIT		5 1	0	60			0	0	27	13	5 43		
989 PZ-06 DO TOU PRESSURIZE WAVEGUIDES OR C.	RS	72	0	83	83		-	00	7.6	71 8	5 7		
PZ-07 DO YOU PURGE WAVEGUIDES OR CAVITY RESONA		45		5.8				a	1.8				
991 PZ-08 DO TOU TROUBLESHOOT WAVEGUIDES OR	1085	15		83				0	~	4	2		
992 PZ-09 DO YOU REMOVE OR INSTALL COMPLETE		75	50	92			_	00		•	0 83		
PZ-10 00 TOU REMOVE OR INSTALL MAVES		4 4	20	58			-	00		•		_	
THE TOTAL OF THE PARTY OF THE P			20	24	1		-	a _o		•			
STATE OF THE RENOVE OR INSTALL E		5	20	20	20			00	23	-	5 22	~ .	
THE PART OF TOTAL OF THE PART	The same of the same of the same of the same of	-	200	000	-	-		o o		-	1		- 1
Paris on you REMOVE		35	2 0	25.0	200	50	20	0			20 00		
999 FZ-16 DO YOU REHOVE OR INSTALL ROTATI		17	20	17				90			- 0		
-17 DO YOU REMOVE OR INSTALL DIR		0.9	20	75				0	19	55 7			•
1001 PZ-18 DO TOU REMOVE OR INSTALL BIDI		25	20	67				0		10 5	0	-	
YOU USE OR REFER TO "A	the same of the same of the same of	0	0.	17				0	•	2	0		

GPSM48 PAGE 36 PET MBRS RESPONDING "YES" BY SELECTED GRAS

PR=20 DO YOU USE OR REFER TO FRE WALL OF WAVEGUIDES PR=21 DO YOU USE OR REFER TO CUTOFF FREQUENCY OF WAVEGUIDES PR=22 DO YOU USE OR REFER TO FREQUENCY=OFTERWINING WALL OF	0 to 0 to 0	200 850 400 850	0.00 F 0.00	067 067 17	200000000000000000000000000000000000000	2000	5 5 5 5 5 5 5 5 5 5 5 5 5 5 5 5 5 5 5	240	7 000 000	075
UDDES ON REFER TO POWER-DETERMINING MALL OF	-0	0	19	Ф	0		m		0	0
MANTENIDES FRANCE OF YOU USE OR REFER TO ELECTRIC FIELD SOUNDARY COMPATIONS	8	20	10	20	0	0	.7	uS)	0	0
USE OR REPER TO MAGNETIC FIELD	2	20	œ	æ	0	0	7	vo.	0	0
P2-26 DO YOU USE OR REFER TO DUPLEXER FILLD BOUNDARY CONDITIONS. CONDITIONS YOU USE OR REFER TO THE GENERAL RULE THAT MOST WAVE UIDES ARE MADE WITH A "BP" MALL SIZE OF "T MAVELENGTHS.	s s	0 0	8	17	0 0	a a	o 0.	2 7	s s	a a
OF THE OPERATING FREQUENCY FRZ=28 DO YOU USE OR REFER TO THE GENERAL RULE THAT MUST "A. WALLS RANGE FROM .2 TO .5 MAVELENGTHS IN SIZE, WITH .35	0	20	11	1.7	0	0	S	S	ī	0
H THE MATERIAL (SU	0	0	0	ю	0	0	5	S	5	•
PR-30 DO YOU COMPUTE THE LENGTH OF A MAVEGUIDE FOR SPECIFIC INSTALLATION	2	0	œ	00	0	0	2	2	0	0
P2-31 DO YOU USE THE RIGHT HAND RULE TO DETERNINE THE DIRECTION OF ME" FIELD, OR DIRECTION OF WE" FIELD, OR DIRECTION OF WE" FIELD IN MAVEGUIDES	0	9	eØ.		0	0	7	5	0	•
TIME PHASE	0	0	00	40	0	0	2	7	0	•
WAVEGUIDES	0	20	0	0	0	0	·	1	0	•
EFER TO THE SPACE QUADRATURE DES	o	0			0	0	7	2	0	0
BES USED ON WAVEGUIDES OR	13	20	3.5	25 2	25 33	0	:	33	52	22
PESONATORS FOU WORK WITH	=	0	33	33	25 33	0	•	7.	-	•
P2-37 ARE LOCPS USED ON MAVEGUIDES OF CAVITY RESONATORS YOU MORK MITH		0	52	25 2	25 33	0	0	12	0	•
IRISESI USED	9	50	57	25 2	25 33	0	35	38	30	7.5
OK.	32	02	1.7	17	50 33	100	37	23	45	35
MITHOUT REFE	2	0	0	0	0	0	~	•	0	•
TECHNICAL DATA P2-41 DG YOU DETERMINE THE PORITIONING OF 100PS IN	c	(,			,	•	•	(•

PCT MBRS RESPONDING .YES' BY SELECTED GRPS

GPSH4B PAGE 37

NAME	07-75K	0.0	200	5PC	200	280	040	5 PC	SPC 072	SPC 073	SPC 079	SPC 075
RECOMATORS TOLD WORK WITH UNDER THE WAVEGUIDES OR CAVITY RECOMATORS TOLD WORK WITH UNDER THE KIND OF CAVITY RECOMATORS TOLD WORK WITH WAVEGUIDES OR CAVITY RECOMATORS TOLD WORK WITH RECOMATORS USING CAMERY RETHON OF TOUR CAVITY RESOMATORS USING CAVITY OF TOUR CAVITY OF	P2-42 DO YOU DETERHINE THE POSITIONING OR SIZE OF IN WAVEGUIDES OR CAVITY RESONATORS WITHOUT REFERR	0	9	0	0	0	٥	С	•	'n	0	
### ##################################	PZ=43 ARE CHOKE JOINTS USED IN MAVEGUIDES OF RESONATORS YOU WORK MITH	*	20	52	25	0	0	0	•	13	15	r
PA15 ARC CONTINE CAPACITY RESONATORS VS VINE CAPACITY TO VINE CAPACITY RESONATORS SORE CAPACITY TO VINE CAVITY RESONATORS SORE CAPACITY TO VINE CAVITY RESONATORS VS	PZ-44 ARE ROTATING JOINTS USED IN MAVEGUIDES OR RESONATORS YOU WORK WITH	3.6	0	20	20	75	67	100	9	\$	5.5	30
PA-95 00 TOU TOUR CAVITY RESONATORS USING CAPACITIVE TURING 1 2 0 55 5 2 0 0 0 10 10 10 10 10 10 10 10 10 10 10	P2-45 ARE DON'T REMEMBER THE KIND OF JOINTS USED I	30	20	52	52	0	0	0	29	7.0	35	17
79—79 07 07 10 10 10 10 10 10 10 10 10 10 10 10 10	THE STATE OF THE CAUTH REGONATORS TO MORE WITH	*	20		4.2	c	a	c	- 3	0	c	
PRINCE CALITY RESONATORS USING POLMET TOWING 21 0 25 25 0 0 0 19 2 1 15 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	PARTY DO YOU TUNE CAVITY RESONATORS USING INDUCTIVE	*	202	33	33	28	33	0 0	20		0	
THE NETHOD OF TUNING CALITY RESONATORS USING DON'T REMEMBER 21 20 17 15 50 33 100 35 31 45 39	P2-48 DO YOU TUNE CAVITY RESONATORS USING	=	0	25	25	0	0	0	•	17	- 2	13
HE REFINED OF TURNING RESONATIONS NAME TO SIGNALS IN CAVITY 30 40 75 76 25 0 100 20 20 31 25 26 RESONATIONS NAME TO SIGNALS IN CAVITY 35 60 83 83 100 100 66 67 05 70 RAVELLA ONS NAME TO BE CONTINUED OF TURNING 4 20 11 17 17 17 17 17 17 17 17 17 17 17 17	P2-49 DO YOU TUNE CAVITY RESONATORS USING DON'T	7	20	-1	-	50	2	100	35	31	45	39
TRAVELING WANGE TUBES (TWT), PARAMETRIC AMPLIFERS, OR 100 100 100 100 100 100 100 100 100 1	THE METHOD OF TUNING PR-SO DO YOU MEASURE THE FREQUENCY OF SIGNALS IN PRESONATORS	30	9	7.5	75	25	٥	100	58	7	52	77
TRAVELING WANGE TUBES (TWT), PARAMETRIC AMPLIFIENS, OR P3-05 DO TOU USE OR REFER TO LEACTRODE CAPACITANCE P3-05 DO TOU USE OR REFER TO LEACTRODE CAPACITANCE P3-05 DO TOU USE OR REFER TO LEACTRODE CAPACITANCE P3-05 DO TOU USE OR REFER TO LEACTRODE CAPACITANCE P3-05 DO TOU USE OR REFER TO LEACTRODE CAPACITANCE P3-05 DO TOU USE OR REFER TO RECERT TO RECETRON WELCETTON WELCEITY	P3-D1 IN YOUR PRESENT JOB DO YOU WORK W	55	0.9	83	83	100	100	100	89	69	69	70
P3-05 DO YOU USE OR REFER TO LELCTRODE CAPACITANCE	TRAVELING MAVE TUBES (TWT), PARAMETRIC AMPLIFIERS,											
P3-05 DO YOU USE OR REFER TO LEECTRON TRANSIT TIME	P3-02 DO YOU USE OR REFER TO INTERELECTRODE	•	20	17	1.7	0	0	0	٥	0	0	•
P3-07 DO 105 OR REFER TO LEAD IN EXTERNAL P3-08 DO 700 USE OR REFER TO RELECTRON BUNCHING P3-08 DO 700 USE OR REFER TO RELECTRON BUNCHING P3-09 DO 700 USE OR REFER TO RELECTRON BUNCHING P3-09 DO 700 USE OR REFER TO RELECTRON BUNCHING P3-09 DO 700 USE OR REFER TO RELECTRON BUNCHING P3-09 DO 700 USE OR REFER TO RELECTRON BUNCHING P3-09 DO 700 USE OR REFER TO RELECTRON BUNCHING P3-09 DO 700 USE OR REFER TO RELECTRON BUNCHING P3-10 DO 700 USE OR REFER TO RELECTRON BUNCHING P3-10 DO 700 USE OR REFER TO RELECTRON BUNCHING P3-10 DO 700 USE OR REFER TO RELECTRON BUNCHING P3-10 DO 700 USE OR WITH TRANSCRIPTIVE PARAMETRIC P3-10 DO 700 USE OR WITH USE CCANTITY KLYSTRONS P3-11 DO 700 USE OR WITH USE CCANTITY KLYSTRONS P3-12 DO 700 USE WITH USE CCANTITY KLYSTRONS P3-13 DO 700 USE WITH USE CCANTITY KLYSTRONS P3-14 DO 700 USE WITH USE CCANTITY KLYSTRONS P3-15 DO 700 USE WITH USE CCANTITY KLYSTRONS P3-15 DO 700 USE WITH USE CCANTITY KLYSTRONS P3-16 DO 700 USE WITH USE CCANTITY KLYSTRONS P3-16 DO 700 USE WITH USE CCANTITY KLYSTRONS P3-17 DO 700 USE WITH USE CCANTITY KLYSTRONS P3-18 DO 700 USE WITH USE CCANTITY KLYSTRONS P3-19 DO 700 USE WITH USE CCANTITY KLYSTRONS P3-19 DO 700 USE WITH USE CCANTITY KLYSTRONS P3-19 DO 700 USE WITH USE KLYSTRONS P3-10 DO 700 USE WITH USE WIT	P3-03 DO YOU USE OR REFER TO ELECTRON TRANS	•	20	00	æ	0	٥	a	s	7	0	•
P3-05 DO TOU USE OR REFER TO RELECTRON MELOCITY 9 20 17 17 25 0 100 3 2 5 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	P3-04 DO YOU USE OR REFER TO LEAD INDUCTANCE	0	20	00	•	0	0	0	00	10	s	
F3-06 DO TOU USE OF REFER TO PRINCIPLE OF ELECTRON VELOCITY 4 20 17 17 25 0 100 3 2 5 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	P3-05 DO YOU USE OR REFER TO RF LOSSES IN	1.7	20	67	6.7	50	67	a	9	0	30	•
MODULATION	CIRCUITRY P3-06 DO YOU USE OR REFER TO PRINCIPLE OF ELECTRON	*	20	11	17	25	0	100	٦	2	s	
P3-00 DO TOU USE OR REFER TO ELECTRON BUMMING P3-00 DO TOU USE OR REFER TO ELECTRON BUMMING P3-00 DO TOU WORK WITH THOU-CAVITY KLYSTROMS P3-10 DO TOU WORK WITH TRAVELING-MARE TUBES (TWT) P3-10 DO TOU WORK WITH TRAVELING-MARE TUBES (TWT) P3-10 DO TOU WORK WITH TRAVELING-MARE TUBES (TWT) P3-11 DO TOU WORK WITH HOMDEGENERATIVE PARAMETRIC AMPLIFIERS P3-11 DO TOU WORK WITH HOMDEGENERATIVE PARAMETRIC AMPLIFIERS P3-12 DO TOU WORK WITH HOMDEGENERATIVE PARAMETRIC AMPLIFIERS P3-13 DO TOU WORK WITH HOMDEGENERATIVE PARAMETRIC AMPLIFIERS P3-14 DO TOU WORK WITH HOMDEGENERATIVE PARAMETRIC AMPLIFIERS P3-15 DO TOU WORK WITH HOMDEGENERATIVE PARAMETRIC AMPLIFIERS P3-15 DO TOU WORK WITH HOMDEGENERATIVE PARAMETRIC AMPLIFIERS P3-15 DO TOU UNSPECIAL KLYSTROMS OR TWT P3-16 DO TOU TUBE KLYSTROMS OR TWT P3-17 DO TOU TROUBLESHOOT KLYSTROMS OR TWT P3-19 DO TOU TROUBLESHOOT KLYSTROMS OR TWT P3-19 DO TOU TROUBLESHOOT KLYSTROM OR TWT COMPONENTS P3-20 DO TOU REMOVE OR REPLACE COMPLETER KLYSTROM OR TWT COMPONENTS P3-20 DO TOU REMOVE OR REPLACE KLYSTROM OR TWT COMPONENTS P3-20 DO TOU CEAM PARMETRIC AMPLIFIERS	MODULATION	•	-				,			,		
P3-08 DO TOU WORK WITH THREE-CAJITY KLYSTRONS P3-10 DO TOU WORK WITH THREE-CAJITY KLYSTRONS P3-10 DO TOU WORK WITH THREE-CAJITY KLYSTRONS P3-11 DO TOU WORK WITH THREE-CAJITY KLYSTRONS P3-12 DO TOU WORK WITH THREE-CAJITY KLYSTRONS P3-13 DO TOU WORK WITH THREE-CAJITY KLYSTRONS P3-14 DO TOU WORK WITH THREE-CAJITY KLYSTRONS P3-15 DO TOU WORK WITH THREE-CAJITY KLYSTRONS P3-15 DO TOU WORK WITH THREE-CAJITY KLYSTRONS P3-15 DO TOU WORK WITH THREE-CAJITY KLYSTRONS P3-16 DO TOU CLEAN KLYSTRONS OR TWT P3-17 DO TOU TUNE KLYSTRONS OR TWT P3-18 DO TOU TROUBLESHOOT KLYSTRONS OR TWT P3-19 DO TOU TROUBLESHOOT KLYSTRONS OR TWT P3-10 DO TOU TROUBLESHOOT KLYSTRONS OR TWT P3-20 DO TOU TROUBLESHOOT KLYSTRONS OR TWT P3-20 DO TOU TROUBLESHOOT KLYSTRONS OR TWT P3-20 DO TOU TROUBLESHOOT KLYSTRONS OR TWT P3-21 DO TOU TROUBLESHOOT KLYSTRON OR TWT P3-21 DO TOU TROUBLESHOOT KLYSTRON OR TWT P3-21 DO TOU TROUBLESHOOT KLYSTRON OR TWT P3-22 DO TOU TROUBLESHOOT KLYSTRON OR TWT P3-22 DO TOU TROUBLESHOOT KLYSTRON OR TWT P3-22 DO TOU TROUBLESHOOT KLYSTRON OR TWT P3-23 DO TOU TROUBLESHOOT KLYSTRON OR TWT P3-24 DO TOU TROUBLESHOOT KLYSTRON OR TWT P3-25 DO TOU TROUBLESHOOT WAS APPLIED TO TOU TROUBLESHOOT TROUBLESHOOT TWT P3-25 DO TOU TROUBLESHOOT KLYSTRON OR TWT P3-25 DO TOU TROUBLESHOOT TROUBLESHOOT TWT P3-25 DO TOU TROUBLESHOOT TW	PA-07 DO TOU USE ON REFEM TO ELECTHON	,	20	17	11	a,	0	a	٠.	,	•	2
P3-10 DO YOU WORK WITH REFLEX KLYSTRONS P3-11 DO YOU WORK WITH RAVELING-WAVE TUBES (TWT) P3-12 DO YOU WORK WITH HANDEGENERATIVE PARAMETRIC P3-13 DO YOU WORK WITH HANDEGENERATIVE PARAMETRIC AMPLIFIERS P3-14 DO YOU WORK WITH HAGNETRONS P3-15 DO YOU WORK WITH HAGNETRONS P3-16 DO YOU WORK WITH HAGNETRONS P3-17 DO YOU WORK WITH HAGNETRONS P3-18 DO YOU WORK WITH HAGNETRONS P3-19 DO YOU WORK WITH HAGNETRONS P3-20 DO YOU REMOVE OR REPLACE KLYSTRONS P3-20 DO YOU REMOVE OR REPLACE KLYSTRONS P3-20 DO YOU REMOVE OR REPLACE KLYSTRONS P3-20 DO YOU NEMOVE OR REPLACE KLYSTRONS P3-20 DO YOU REMOVE OR REPLACE KLYSTRONS P3-20 DO YOU WORK WITH HAGNETRIC AMPLIFIERS P3-20 DO YOU WORK WITH HAGNETRIC WORK WITH HAGN	P3-06 DO YOU MORK MITH THO-CAVITY KLYS	.	00	ø C		00	•	00	-	20	200	
P3-11 DO YOU WORK WITH TRAVELING-WAVE TUBES (TWT) AMPLIFIERS AMPLIFIERS AMPLIFIERS AMPLIFIERS AMPLIFIERS AMPLIFIERS AMPLIFIERS B3-12 DO YOU WORK WITH HONDEGENERATIVE PARAMETRIC AMPLIFIERS B3-13 DO YOU WORK WITH HONDEGENERATIVE PARAMETRIC AMPLIFIERS B3-14 DO YOU WORK WITH HAGNETRONS B3-15 DO YOU WORK WITH HAGNETRONS B3-16 DO YOU REMOVE OR REPLACE KLYSTRONS OR TWT B3-27 DO YOU REMOVE OR REPLACE KLYSTRONS B3-28 DO YOU REMOVE OR REPLACE KLYSTRONS B3-28 DO YOU WORK WITH HAGNETROL AMPLIFIERS B3-38 DO YOU WORK WORK WITH HAGNETROL AMPLIFIERS B3-38 DO YOU WORK WITH HAGNETROL AMPLIFIERS B3-38 DO YOU WORK WORK WITH H	P3-10 DO YOU WORK WITH	=	0	20	20	25	0	100	26		0.	19
### ### ### ### ######################	P3-11 DO YOU MORK WITH TRAVELING-WAVE TUBES	•	0	35	25	0	0		0	-	0	•
AMPLIFIERS B3 100 100 100 68 67 65 65 67 100 68 67 65 67 100 68 67 65 67 100 68 67 65 67 100 68 67 65 67 100 68 67 65 67 100 68 67 65 67 100 68 67 67 67 67 67 67 67 67 67 67 67 67 67	P3-12 DO YOU WORK WITH NONDEGENERATIVE PARAP	•	0	67	67	0	0	0	8	7	0	0
P3-19 DO YOU WORK WITH HAGNETRONS P3-19 DO YOU WORK WITH HAGNETRONS P3-15 DO YOU WORK WITH HAGNETRONS P3-15 DO YOU WORK WITH HAGNETRONS P3-15 DO YOU WORK KLYSTRONS OR TWIT P3-17 DO YOU WORK KLYSTRONS OR TWIT ELECTRICALLY P3-19 DO YOU FEMORE CREATIONAL CHECKS OF KLYSTRONS OR TWIT P3-19 DO YOU FROME CREATIONAL CHECKS OF KLYSTRONS OR TWIT P3-20 DO YOU ROUBLESHOOT KLYSTRONS OR TWIT COMPONENTS P3-20 DO YOU REMOVE OR REPLACE COMPLETE KLYSTRON OR TWIT COMPONENTS P3-20 DO YOU REMOVE OR REPLACE COMPLETE KLYSTRON OR TWIT COMPONENTS P3-20 DO YOU REMOVE OR REPLACE COMPLETER P3-20 DO YOU REMOVE OR REPLACE COMPLETERS P3-20 DO YOU REMOVE OR REMOVE	PAPELIFIERS PARAMETRIC	15	0	17	17	C	0	c	2	2	0	0
P3=15 DO YOU INSPECT KLYSTRONS OR TWIT P3=16 DO YOU LEAM KLYSTRONS OR TWIT P3=17 DO YOU LUE KLYSTRONS OR TWIT ELECTRICALLY P3=18 DO YOU TONE KLYSTRONS OR TWIT NECHANICALLY P3=18 DO YOU TONE KLYSTRONS OR TWIT NECHANICALLY P3=19 DO YOU PERFORM OPERATIONAL CHECKS OF KLYSTRONS OR TWIT P3=20 DO YOU REMOVE OR REPLACE COMPLETE KLYSTRONS OR TWIT P3=20 DO YOU REMOVE OR REPLACE COMPLETE KLYSTRON OR TWIT COMPONENTS P3=20 DO YOU REMOVE OR REPLACE KLYSTRON OR TWIT COMPONENTS P3=20 DO YOU REMOVE OR REPLACE KLYSTRON OR TWIT COMPONENTS P3=20 DO YOU LEAM PARKETRIC AMPLIFIERS P3=20 DO YOU CLEAM PARKETRIC AMPLIFIERS P3=20 DO YOU CLEAM PARKETRIC AMPLIFIERS P3=20 DO YOU CLEAM PARKETRIC AMPLIFIERS	P3-14 DO YOU WORK WITH MAGNETRONS	53	20	83	83	100	100	100	89	69	45	7.0
P3=16 DO 70U CLEAM KLYSTRONS OR TWT ELECTRICALLY P3=17 DO 70U TUNE KLYSTRONS OR TWT ELECTRICALLY P3=18 DO 70U TUNE KLYSTRONS OR TWT HECHANICALLY P3=20 DO 70U PERFORM OPERATIONAL CHECKS OF KLYSTRONS OR TWT P3=21 DO 70U REMOVE OR REPLACE KLYSTRON OR TWT COMPONENTS P3=22 DO 70U REMOVE OR REPLACE KLYSTRON OR TWT COMPONENTS P3=22 DO 70U NSPECT PARMETRIC AMPLIFIERS P3=24 DO 70U CLEAM PARMETRIC AMPLIFIERS P3=25 DO 70U CLEAM PARMETRIC AMPLIFIERS	P3-15 DO YOU INSPECT KLYSTRONS OR	•	o	28	5.8	75	67	100	45	45	4.5	52
P3=17 DO 70U TUNE KLYSTRONS OR TWT ELECTRICALLY P3=18 DO 70U TUNE KLYSTRONS OR TWT MECHANICALLY P3=18 DO 70U TUNE KLYSTRONS OR TWT MECHANICALLY P3=19 DO 70U TROUBLESHOOT KLYSTRONS OR TWT P3=20 DO 70U TROUBLESHOOT KLYSTRONS OR TWT P3=20 DO 70U TROUBLESHOOT KLYSTRONS OR TWT P3=20 DO 70U TROUBLESHOOT KLYSTRONS OR TWT P3=21 DO 70U MEMOYE OR REPLACE COMPLETE KLYSTRON OR TWT COMPONENTS P3=22 DO 70U MEMOYE OR REPLACE KLYSTRON OR TWT COMPONENTS P3=24 DO 70U LEEAW PARAMETRIC AMPLIFIERS P3=25 DO 70U KLEAW PARAMETRIC AMPLIFIERS P3=26 DO 70U KLEAW PARAMETRIC AMPLIFIERS P3=27 DO 70U KLEAW PARAMETRIC AMPLIFIERS P3=27 DO 70U KLEAW PARAMETRIC AMPLIFIERS	P3-16 DO YOU	7	0	60	00	0	0	0	•	•	20	13
P3=18 DO YOU TUNE KLYSTRONS OR TWT MECHANICALLT P3=19 DO YOU PERFORM OPERATIONAL CHECKS OF KLYSTRONS OR 13 20 67 67 75 67 100 52 52 50 TWT TWT P3=20 DO YOU TROUBLESHOOT KLYSTRONS OR TWT P3=20 DO YOU TROUBLESHOOT KLYSTRONS OR TWT P3=22 DO YOU REMOVE OR REPLACE COMPLETE KLYSTRON OR TWT COMPONENTS 9 0 0 0 0 0 0 18 19 15 P3=23 DO YOU NEMOVE OR REPLACE KLYSTRON OR TWT COMPONENTS 9 0 0 0 0 0 0 0 100 3 5 0 P3=24 DO YOU LEAM PARAMETRIC AMPLIFIERS P3=25 DO YOU CLEAM PARAMETRIC AMPLIFIERS P3=26 DO YOU CLEAM PARAMETRIC AMPLIFIERS	P3-17 DO TOU TUNE KLYSTRONS OR THT ELE	•	0	90	20	25	33	٥	37	36	0	43
1	P3-18 DO YOU TUNE KLYSTRONS OR THT MECHANIC	8	0	5.8	5.8	75	67	100	52	52	20	4.8
P3-20 DO YOU TROUBLESHOOT KLYSTROMS OR TWT P3-21 DO YOU REMOVE OR REPLACE COMPLETE KLYSTROM OR TWT P3-22 DO YOU REMOVE OR REPLACE KLYSTROM OR TWT COMPONENTS P3-22 DO YOU NEMOVE OR REPLACE KLYSTROM OR TWT COMPONENTS P3-24 DO YOU INSPECT PARAMETRIC AMPLIFIERS P3-24 DO YOU CLEAM PARAMETRIC AMPLIFIERS P3-25 DO YOU CLEAM PARAMETRIC AMPLIFIERS P3-26 DO YOU CLEAM PARAMETRIC AMPLIFIERS	P3-19 DO YOU PERFORM OPERATIONAL CHECKS OF KLYSTRONS	13	20	67	67	75	67	100	42	0	45	*3
P3-21 DG YOU REMOVE OR REPLACE COMPLETE KLYSTROW OR TWT 9 20 50 50 100 100 100 45 43 50 3 P3-22 DG YOU REMOVE OR REPLACE KLYSTROW OR TWT COMPONENTS 9 0 0 0 0 0 0 10 18 19 15 2 P3-23 DG YOU INSPECT PARAMETRIC AMPLIFIERS 13 0 75 75 25 0 100 3 5 0 P3-23 DG YOU CLEAM PARAMETRIC AMPLIFIERS 10 0 0 0 0 3 3 25 0 100 2 2 0	P3-20 DO YOU TROUBLESHOOT KLYSTROMS OR T	•	20	20	80	20	33	100	34	3.6	52	3.6
P3=22 DO YOU REMOVE OR REPLACE KLYSTROM OR TWT COMPONENTS 9 0 0 0 0 0 0 18 19 15 2 P3=23 DO YOU INSPECT PARAMETRIC AMPLIFIERS 13 0 75 75 25 0 100 3 5 0 P3=24 DO YOU CLEAM PARAMETRIC AMPLIFIERS 1 0 0 10 2 2 0	P3-21 DO TOU REMOVE OR REPLACE COMPLETE KLYSTRE	•	20	200	5.8	100	100	100	45	43	20	3.0
P3=23 DO YOU INSPECT PARAMETRIC AMPLIFIERS 13 0 75 75 25 0 100 3 5 0	P3-22 DO YOU REMOVE OR REPLACE KLYSTROM OR TWT	0	0	0	o	0	0	0	1.00	6	15	22
PERSON OF CLEAN PRANTIFIC AMPLIFIERS	P3-23 DO YOU INSPECT PARAMETRIC AMPLIFI	13	0	15	75	52	0	100	-	S	0	
	PAINS OF YOU CLEAN PARAMETRIC AMPLIFIER	•	0	23	33	25	0	001	7	~	q	-

PET HBRS RESPONDING *YES* BY SELECTED GRPS

GPSMAB PAGE 38

	STATE	XX. 166 1- 1-	S & C	5 PC 0 65	9 40	SPC 067	5 P C	5 p c	5PC 071	5 P.C 072	SPC 073	245	SPC 078	
	20 00 00 00 00 00 00 00 00 00 00 00 00 0	RIC AMPLIFICE						O	100	673	uti	0	w	
	DAD PS-27 DO YOU PERFORM OF	ATTOWAL CHECKS OF PARAMETRI						0	001	m	wi	0	4	
MAIL FILE MAINTENER OF REPLICE CAMPLIFICATION MAINTENER CAMPLIFICATIO	AL P3-28 DO YOU TROUBLESHO	ARANETRIC AMPLIFICA			9			0	100	14	14	0	0	
10 10 10 10 10 10 10 10	62 P3-29 DO YOU RENOVE OR	ACE COMPLETE PARAMETRI			60			O	100	m	1275	0	w	
Colored Color Co	63 P3-30 DO YOU REHOVE OR	PLACE PARAMETRIC AMPLIFIE	N	0				0	100	OI.	2	0	0	
PH-3 DO TOU CALLET WARFER STATES AND THE PROPERTY OF THE PROPE	CONFONENTS	# 2 4 6 6 9 PM 2 7		C			,	۴		6	6	4		
P==3 00 YOU FENDERSON CREATER ROLS P==3 00 YOU FENDERSON CREATER ROLS P==3 00 YOU FENDERSON CREATER ROLS P==3 00 YOU FENDERSON THANKY ROLNS P==3 00 YOU SEGNERSON THANKY ROLNS P==3 00 YOU FENDERSON THANKY ROLNS P==3 00 YOU SEGNERSON THANKY R	PA-12 DO TOU LINERED TA	Z		9 0			5	19		34	36	200	000	
### ### ### ### ### ### ### ### ### ##	P3-33 DO YOU ADJUST	THE STATE OF THE S	* 18 0 C2	30			0 0	0	0 0	0.00	40	0 20	2 00	
Pa-35 00 FOUR TREATMENT CONTENTANT CHECKES OF NAGMETRONS Figh 20 TOU TROUBLESHOOT ARREWINDS Figh 30 TOU TROUBLESHOOT ARREWING FRINCIPLES OF D 20 TO	P3-34 DO YOU TUNE MAG	•	9	8			0	0	0	5.5	25	09	57	
Parababan of the registration of the registrat	PA-35 DO YOU PERFORM	TIONAL CHECKS OF MAGNETHON	95 145	040			100	100	100	63	6.4	90	6.5	
P3-34 00 10 0 REPORT OF REPURE REPURED	PARTE DO TOU TROUBLESME	Z P E N E N E N E N E N E N E N E N E N E	wi 1	20			05	50	100	8 1	an a	35	25.	
Pa-30 0 000 USE ON REFER TO THE OPERATING PRINCIPLES OF 2 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	·	THON TONGOMENT		0			000	000	000	-	13		2 4	
PARAGON TOWN USE ONR REFER TO THE OPERATING PRINCIPLES OF 0 20 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	n	CHATING PRINCIPLES O			0	0	0 0	0	o a			0		
PHOCANITY KIYS ROUS CATCHER GRIDS TWO-CANITY KIYS ROUS CATCHER GRIDS FROM CANITY KIYS ROUS CATCHER GRIDS FROM CANITY KIYS ROUS CATCHER GRIDS FROM CANITY KIYS ROUS GRIT SPACE FROM CANITY KIYS ROUS GRIDS FROM CANITY FROM CANITY CAND CAND CAND CAND CAND CAND CAND CAND	-	TES ENATING PRINCIPLES OF	0	20	0	0	0	0	0	'n	7	0	*	
THOU-CANTITY KLYSTRONS CATCHER GIDS THOU-CANTITY KLYSTRONS CATCHER TO THE OPERATING PRINCIPLES OF 0 20 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0		TESTING PRINCIPLES	0	30	0	0	c	0	c	5	7	0		
TWO-CANITY KLYSTRONS FEEDBACK LODES P3-47 DO TOU USE OR REFER TO THE OPERATING PRINCIPLES OF 0 20 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0		2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2		00	q	a		C		a		c	-	
P3-4-0 COVUUSE OR REFER TO THE OPERATING PRINCIPLES OF 0 20 0 0 0 0 0 3 5 0 0 0 0 0 0 0 0 0 0 0 0	TWO-CAVITY KLYS?	5			,	•	0		>			,	:	
P349 00 700 USE OR REFER TO THE OPERATING PRINCIPLES OF 0 20 8 8 0 0 0 0 3 5 0 0 0 17 CALLY VEXTRONS BUNCHER GRIDS TWO-CAVITY KLYSTRONS BUNCHER CAVITIES TWO-CAVITY KLYSTRONS BUNCHER CAVITIES TWO-CAVITY KLYSTRONS BUNCHER CAVITIES TWO-CAVITY KLYSTRONS BUNCHER CAVITIES TWO-CAVITY KLYSTRONS CANTOL GRIDS TWO CAVITY GRIDS TWO CAVITY KLYSTRONS CANTOL GRIDS TWO CAVITY CAVITY GRIDS TWO CAVITY CAVITY CAVITY CAVITY GRIDS TWO CAVITY CAVIT	a.	ERATING PRINCIPLES	0	20	0	0	0	0	a	~	S	0	٥	
TWO-CAVITY KLYSTRONS BONCHER GRIDS TWO-CAVITY KLYSTRONS BUNCHER GRIDS TWO-CAVITY KLYSTRONS BUNCHER GRIDS TWO-CAVITY KLYSTRONS GRAFTER TO THE OPERATING PRINCIPLES OF 0 20 6 6 0 0 0 10 14 0 17 TWO-CAVITY KLYSTRONS GRAFTER TO THE OPERATING PRINCIPLES OF 2 20 0 0 0 0 13 17 5 22 TWO-CAVITY KLYSTRONS GRAFTER TO THE OPERATING PRINCIPLES OF 2 20 67 67 25 0 100 39 45 25 46 TWO-CAVITY KLYSTRONS GRAFTER TO THE OPERATING PRINCIPLES OF 2 20 67 67 25 0 100 39 45 25 46 TWO-CAVITY KLYSTRON GRAFTER TO THE OPERATING PRINCIPLES OF 2 20 67 67 25 0 100 39 45 25 46 TWO-CAVITY KLYSTRON GRIDS TWO-CAVITY GRIDS TWO-CAVITY KLYSTRON GRIDS TWO-CAVITY GRIDS TWO-CAVITY GRIDS TWO-CAVITY GRIDS TWO-CAVITY GRIDS TWO-CAVITY GRIDS TWO		ERATING PRINCIPLES	0	20	ø	00	0	0	a	٦	5	0	0	
THO-CAVITY KLYSTROMS BUNCHER CAVITES THO-CAVITY KLYSTROMS BUNCHER CAVITES THO-CAVITY KLYSTROMS CAPTOL GRIDS THO-CAVITY KLYSTROMS CAPTOL GRIDS THO-CAVITY KLYSTROMS CAPTOL GRIDS THO-CAVITY KLYSTROMS CAPTOL GRIDS THO-CAVITY KLYSTROMS CATHODES THO-CAVITY CAPTOL USE OR REFER TO THE OPERATING PRINCIPLES OF Z ZO ZS ZS O 0 0 0 24 33 5 30 THEFLEX KLYSTROM GRIDS THEFLEX KLYSTROM GRIDS THO-CAVITY CAPTOL USE OR REFER TO THE OPERATING PRINCIPLES OF Y ZO ZS ZS O 0 0 0 10 24 33 5 30 THEFLEX KLYSTROM GRIDS THO-CAVITY CAPTOL USE OR REFER TO THE OPERATING PRINCIPLES OF Y ZO ZS ZS O 0 0 0 2 19 29 34 15 30 THEFLEX KLYSTROM RESORMAT CAUTIES THEFLEX KLYSTROM HAGNETIC COUPLING LOOPS THEFLEX KLYSTROM HAGNETIC COUPLING LOOPS THEFLEX KLYSTROM HAGNETIC COUPLING LOOPS THO-CAVITY CAPTOL USE OR REFER TO THE OPERATING PRINCIPLES OF Z ZO ZS ZS O 0 0 0 27 34 15 30 THEFLEX KLYSTROM HAGNETIC COUPLING LOOPS THEFLEX KLYSTROM FILAMENTS THEFLEX KLYSTROM HAGNETIC COUPLING LOOPS THEFLEX KLYSTROM FILAMENTS THEFLEX KLYSTROM FILAMENTS THEFLEX KLYSTROM HAGNETIC COUPLING LOOPS THEFLEX KLYSTROM FILAMENTS THEFLEX KLYSTROM FILAMEN		ERATING PRINCIPLES	٥	20	40	60	c	0	c	•	5	0	٥	
TWO-CAVITY KLYSTRONS CONTROL GRIDS TWO-CAVITY KLYSTRONS CONTROL GRIDS TWO-CAVITY KLYSTRONS CONTROL GRIDS TWO-CAVITY KLYSTRONS CONTROL GRIDS TWO-CAVITY KLYSTRONS CATHODES TWO-CAVITY KLYSTRONS CATHODES TWO-CAVITY KLYSTRONS CATHODES REFLEX KLYSTRON REPELLER IREFLECTOR! PLATES P3-48 DO YOU USE OR REFER TO THE OPERATING PRINCIPLES OF 2 20 25 25 0 0 0 24 33 5 30 REFLEX KLYSTRON GRIDS P3-50 DO YOU USE OR REFER TO THE OPERATING PRINCIPLES OF 0 20 17 17 0 0 0 0 16 24 0 22 REFLEX KLYSTRON GRIDS P3-51 DO YOU USE OR REFER TO THE OPERATING PRINCIPLES OF 0 20 20 25 25 0 0 0 0 20 31 38 15 43 P3-52 DO YOU USE OR REFER TO THE OPERATING PRINCIPLES OF 0 20 25 25 0 0 0 0 27 34 15 30 P3-52 DO YOU USE OR REFER TO THE OPERATING PRINCIPLES OF 2 20 25 25 0 0 0 0 27 34 15 30 P3-53 DO YOU USE OR REFER TO THE OPERATING PRINCIPLES OF 2 20 25 25 0 0 0 0 27 34 15 30 P3-54 DO YOU USE OR REFER TO THE OPERATING PRINCIPLES OF 2 20 25 25 0 0 0 0 27 34 15 30 P3-54 DO YOU USE OR REFER TO THE OPERATING PRINCIPLES OF 2 20 25 25 0 0 0 0 27 34 15 30 P3-55 DO YOU USE OR REFER TO THE OPERATING PRINCIPLES OF 2 20 25 25 0 0 0 0 27 34 15 30 P3-55 DO YOU USE OR REFER TO THE OPERATING PRINCIPLES OF 2 20 25 25 0 0 0 0 27 34 15 30		PRATING PRINCIPLES	0	20	•	•		0		01	-	o		
THOUGH USE ON REFER TO THE OPERATING PRINCIPLES OF 2 20 67 25 0 100 39 45 22 72 73 48 75 100 00 00 00 13 17 5 22 72 73 48 75 100 00 00 00 00 00 00 00 00 00 00 00 00											:		. ;	
P3-48 DO YOU USE OR REFER TO THE OPERATING PRINCIPLES OF 2 20 67 25 0 100 39 45 25 48 REFLEX KLYSTROM REFELLER (REFLECTOR) PLATES P3-49 DO YOU USE OR REFER TO THE OPERATING PRINCIPLES OF 2 20 25 25 0 0 0 24 33 5 30 P3-50 DO YOU USE OR REFER TO THE OPERATING PRINCIPLES OF 4 20 50 50 25 0 100 31 38 15 43 REFLEX KLYSTROM 6RID CAVITY 6APS P3-51 DO YOU USE OR REFER TO THE OPERATING PRINCIPLES OF 4 20 50 25 0 100 31 38 15 43 P3-52 DO YOU USE OR REFER TO THE OPERATING PRINCIPLES OF 0 20 25 25 0 0 0 0 29 34 15 30 REFLEX KLYSTROM MAGNETIC COUPLING LOOPS P3-53 DO YOU USE OR REFER TO THE OPERATING PRINCIPLES OF 2 20 25 25 0 0 0 2 29 34 15 30 REFLEX KLYSTROM MAGNETIC COUPLING LOOPS P3-53 DO YOU USE OR REFER TO THE OPERATING PRINCIPLES OF 2 20 25 25 0 0 0 0 29 34 15 30 P3-53 DO YOU USE OR REFER TO THE OPERATING PRINCIPLES OF 2 20 25 25 0 0 0 0 29 34 15 30 P3-54 DO YOU USE OR REFER TO THE OPERATING PRINCIPLES OF 2 20 25 25 0 0 0 0 29 34 15 30 P3-54 DO YOU USE OR REFER TO THE OPERATING PRINCIPLES OF 2 20 25 25 0 0 0 0 29 34 15 30		ENATING PRINCIPLES	7	20	0	0	o	0	a		=	•		
FIFTER KLYSTRON METELLER INTERLECTOR!) PLATES P3-47 DD YOU USE OR REFER TO THE OPERATING PRINCIPLES OF 2 20 25 25 0 0 0 24 33 5 30 REFLEX KLYSTRON GRIDS P3-50 DO YOU USE OR REFER TO THE OPERATING PRINCIPLES OF 4 20 50 25 0 100 31 36 15 43 REFLEX KLYSTRON GRID CAVITY 6APS P3-51 DO YOU USE OR REFER TO THE OPERATING PRINCIPLES OF 4 20 50 25 0 100 31 36 15 43 REFLEX KLYSTRON RESONANT CAVITIES P3-52 DO YOU USE OR REFER TO THE OPERATING PRINCIPLES OF 2 20 25 25 0 0 0 2 29 34 15 30 REFLEX KLYSTRON MAGNETIC COUPLING LOOPS REFLEX KLYSTRON MAGNETIC COUPLING PRINCIPLES OF 2 20 25 25 0 0 0 2 29 34 15 30 REFLEX KLYSTRON MAGNETIC COUPLING PRINCIPLES OF 2 20 25 25 0 0 0 2 29 34 15 30 REFLEX KLYSTRON MAGNETIC COUPLING PRINCIPLES OF 2 20 25 25 0 0 0 2 29 34 15 30 REFLEX KLYSTRON MAGNETIC COUPLING PRINCIPLES OF 2 20 25 25 0 0 0 2 29 34 15 30 REFLEX KLYSTRON MAGNETIC COUPLING PRINCIPLES OF 2 20 25 25 0 0 0 2 29 34 15 30	081 P3-48 DO YOU USE	IE OPERATING PRINCIPLES	2	20	67		25	0	100	30	45	52		
REFLEX KLYSTROM GRIDS P3.=50 DO TOU USE DR REFER TO THE OPERATING PRINCIPLES OF 0 20 17 17 0 0 0 0 16 29 0 22 P3.=50 DO TOU USE DR REFER TO THE OPERATING PRINCIPLES OF 9 20 50 25 0 100 31 38 15 43 P3.=51 DO TOU USE DR REFER TO THE OPERATING PRINCIPLES OF 0 20 25 25 0 0 19 29 0 26 P3.=52 DO TOU USE DR REFER TO THE OPERATING PRINCIPLES OF 2 20 25 25 0 0 0 29 34 15 30 P3.=53 DO TOU USE DR REFER TO THE OPERATING PRINCIPLES OF 2 20 25 25 0 0 0 29 34 15 30 P3.=53 DO TOU USE DR REFER TO THE OPERATING PRINCIPLES OF 2 20 25 25 0 0 0 29 34 15 30 P3.=59 DO TOU USE DR REFER TO THE OPERATING PRINCIPLES OF 2 20 25 25 0 0 0 29 34 10 35	P3-49 00 700 USE	ERATING PRINCIPLES O	2	20	25	25	0	0	0	5 4	33	\$	30	
REFLEX KLYSTRON GRID CAVITY GAPS P3-51 DO YOU USE OR REFER TO THE OPERATING PRINCIPLES OF 9 20 50 25 0 100 31 38 15 43 REFLEX KLYSTRON RESONANT CAVITIES P3-52 DO YOU USE OR REFER TO THE OPERATING PRINCIPLES OF 2 20 25 25 0 0 0 20 30 15 30 P3-53 DO YOU USE OR REFER TO THE OPERATING PRINCIPLES OF 2 20 25 25 0 0 0 20 30 15 30 REFLEX KLYSTRON FLAMENTS P3-54 DO YOU USE OR REFER TO THE OPERATING PRINCIPLES OF 2 20 25 25 0 0 0 20 30 35	REFLEX KLYSTRON	PRATING PRINCIPLE	0	20	17	1.7	c	a	c	4	24	c	22	
REFLEX KLYSTRON RESONANT CAVITIES P3-52 DO 70U USE OR REFER TO THE OPERATING PRINCIPLES OF G 20 25 25 0 0 19 29 0 26 REFLEX KLYSTRON MAGNETIC COUPLING LOOPS P3-53 DO 70U USE OR REFER TO THE OPERATING PRINCIPLES OF Z 20 25 25 0 0 0 29 34 15 30 REFLEX KLYSTRON FILAMENTS P3-64 DO 70U USE OR REFER TO THE OPERATING PRINCIPLES OF Z 20 25 25 0 0 0 29 38 10 35	PASTEN KLYSTROM	GAPS THE OPERATING PRINCIPLES	*	20	20	20	25	0	001		38		:	
REFLEX KLYSTRON MAGNETIC COUPLING LOOPS P3-53 00 700 USE OR REFER TO THE OPERATING PRINCIPLES OF 2 20 25 25 0 0 0 29 34 15 30 REFLEX KLYSTRON FILAMENTS P3-54 DO TOU USE OR REFER TO THE OPERATING PRINCIPLES OF 2 20 25 25 0 0 29 38 10 35	P3-52 DO YOU USE	CAVITIES TO THE OPERATING PRINCIPLES	0	20	25	25		0		0	2.6	9		
REFLEX KLYSTRON FILAMENTS F3-54 DO YOU USE OF REFER TO THE OPERATING PRINCIPLES OF 2 20 25 25 0 0 0 29 38 10	Pa-53 DO TOU USE	PLING LOOPS THE OPERATING PRINCIPLES	2	20	25	52		0		. 62	*	. 5	30	
	PEFLEX KLYSTRON	TO THE OPERATING PRINCIPLES	7	20	25	25	0	0	a	5.6	3.8	0	35	

PCT MBRS RESPONDING .YES. BY SELECTED GRPS

GPSH48 PAGE 39

TASK GROUP SUMMARY PERCENT MEMBERS PERFORMING

	S D4S	SPC SP	C SPC	SPC	SPC	SPC	SPC	SPC SPC	C SPC	
0Y-75K		990 59		690	070	071				
PIDER P3-55 DO YOU USE OR REFER TO THE OPERATING PRINCIPLES OF	2	* 02	2 42	0	0	0	54	31	0 30	
REFLEX KLYSTRON DUTPUT LEADS	•	2 00		•	c	(:			
TOTAL THE TAXABLE TO THE CONTRACTOR OF THE CONTR		•	67 6	0	>	0	:			-
PIDGO P3-57 DO YOU USE OR REFER TO THE OPERATING PRINCIPLES OF	ð	1 02	7 17	0	0	0	13	•	0 22	
TRAVELING-MAVE TUBES CATHODES										
7	2	20	7 17	0	0	0	00	12	0	
TRAVELING-MAVE TUBES MODULATOR GRIDS		20 25	5 25	c	0	c	=	17	17	
TRAVELING-WAVE TUBES ANDDES				•						
PID93 P3-60 DO YOU USE OF REFER TO THE OPERATING PRINCIPLES OF	*	20 2	25 25	0	0	a	S	1	0 0	
TRAVELING-WAVE TUBES HELIXES P1094 P3-61 DO YOU USE OR REFER TO THE OPERATING PRINCIPLES OF		1 02	7 17	a	0	a	40	12	61 0	
TRAVELING-MANE TUBES COLLECTORS P.095 P3-62 DO YOU USE OR REFER TO THE DEFRATING PRINCIPLES OF	2	20 1	7 17	c	0	c	01	•	0 17	
TRAVELING-WAVE TUBES MAGNETS										
PIDS P3-63 DO YOU USE OR REFER TO THE OPERATING PRINCIPLES OF	•	20 2	25 25	25	0	100	9	21	5 22	
TRAVELING-WAVE TUBES ATTENUATORS P1097 P3-64 DO YOU PERFORM 145KS ON PARAMETRIC AMPLIFIER FERRITE	•	20 3	33 33	a	0	a	~	2	0	
CIRCULATORS	•		•		c		•	,		
			1		•					
CATTLES	,				9	a				
DIODES	,	n S	00	0	2	9	2	n		
PIIDI P3-68 DO YOU PENFORM TASKS ON PARAMETRIC AMPLIFIER FERRITE	•	0	33 33	50	33	100	5	1	. 0	
ISOLATORS PI-69 DO YOU PERFORM TASKS ON PARAMETRIC AMPLIFIER REVERSE-	2	0	7 17	0	٥	a	2	~	0	
BIAS BATTERIES FILDS PS-70 DO YOU PERFORM TACKS ON ALODRES	2	٥	0	c	a	c	10	•	17	
P3-71 DO YOU PERFORM TASKS ON	0	0	0	0	0	0	100	13	0 13	
P3-72 DO YOU PERFORM TASKS ON COUPLING LOOPS	7			0	0	a	10	•		
P3-73 DO YOU PERFORM TASKS ON MEATER LEADS	0	-	-	0	0	0	10	12	£ 13	
P3-74 DO YOU PERFORM TASKS ON RESONAN	•		-	a	0	a	9	5.4		
P3-75 DO YOU PERFORM TASKS ON	•		0	0	0	0	=	17		
P3-76 DO YOU PERFORM TASKS ON MAGMETS	-		7	9	0	9	-	17	5 22	-
STORAGE OF THE PRINCE TO STORAGE	30 -	20 0	3	20	2	001	n 1		0 0	
X 0		0 0	. 83	45	0	000	2 .	n u		
REGISTERS				45	>	00	n	n		
ALLIA 91-04 DO TOU USE OR REFER TO LOGIC STMBOLS OF STORAGE	•	8 09	83 83	25	0	100	3	5	• 0	REGISTERS
SHILL BL-DS DO YOU TRACE THE DATA FLOW THROUGH LOGIC DIAGRAMS OF	7	80 7	5 75	25	0	100	٠	5	•	
BILLS 91-06 DO YOU TRACE THE DATA FLOW THROUGH LOGIC DIAGRAMS OF	•	40 2	5 75	0	0	0	٤	•		
CTMEN TYPE OF REGISTERS	-							-		

DIGITAL TO ANALOG STORAGE 0 0 0 0 0 0 8 3 0 0 0 0 0 0 0 5PC 075 7 4 0 290 0 0 0 0 0 0 0 0 0 0 0 0 00000 0 000 0 5 PC ~ 73 245 ~ 2 ~ 200 0 0 0 0 C 00000 0 odo 0 0 0 0 0 a 0 a a SPC 070 0 ۵ 0 0 0 0 0 a 0 0 0 20000 000 0 3 P C 0 0 0 0 50000 000 0 0 0 0 0 0 0 GPSH4B PAGE 067 8 50 Spe 12 20 83 58 20 4 2 20 17 28 2.0 20 2.8 17 990 64 12 **G**) 58 00 20 43 20 13 58 20 11 90 8 20 20 20 890 0.0 000 0 20 20 20 20 20 20 20 20 ~ 0 0 23 COUNTS IN ELECTRONIC DIGITAL—TO ANALOG COLAIN CONVERTERS
ANALOG—TO—DIGITAL (AZD) CONVERTER CIRCUITS
ANALOG—TO—DIGITAL (AZD) CONVERTER CIRCUITS
ANALOG—TO—DIGITAL (AZD) CONVERTER CIRCUITS
ANALOG—TO—DIGITAL (AZD) CONVERTER CIRCUITS
Q1132 Q3—O7 DO YOU PERFORM COMPARE FUNCTION TASKS ON VARIABLE
Q1132 Q3—O7 DO YOU PERFORM COMPARE FUNCTION TASKS ON VARIABLE
TIME ANALOG—TO—DIGITAL (AZD) CONVERTER CIRCUITS
Q1131 Q3—O8 DO YOU PERFORM DIGITIZE FUNCTION TASKS ON VARIABLE
TIME ANALOG—TO—DIGITAL (AZD) CONVERTER CIRCUITS
Q1134 Q3—O8 DO YOU PERFORM DIGITIZE FUNCTION TASKS ON VARIABLE
Q1134 Q3—O8 DO YOU PERFORM DON*T REMEMBER WHICH FUNCTION TASKS NH. ANALOG (D/A) CONVERTERS, ANALOG-TO-DIGITAL (A/D)
CONVERTERS, OR BINARY-TO-DECIMAL READOUT CONVERTERS
93-02 DO YOU COMPUTE OUTPUT VOLYAGES FOR ELECTROMECHANICAL
DIGITAL-TO-AMALOG (D/A) CONVERTERS FOR GIVEN INPUT REFER TO VOLATILITY OF MEMORY SYSTEMS
BEFER TO LOGIC SYMBOL OF DELAT LIMES
IT JOB. DO YOU MORK WITH DIGITAL-TO-THE STATE OF EACH FLIPHFLOP OF A SPECIFIED NUMBER OF SHIFT PULSES G3.03 DO YOU USE OR REFER TO THE SEMERAL RULE THAT THE COUNT IN ELECTROMECHANICAL DIGITAL-TO-ANALOG (D/A) CONVERTERS IS DETERMINED BY ADDING THE DENOMINATORS OF 93-14 DO TOU PERFORM ANY TASKS ON MECHANICAL ANALOG-TO-91129 93-04 DO YOU COMPUTE AMALOG VOLTAGES FOR GIVEN BIMARY 90 DO YOU USE OR REFER TO DIGITAL FUNCTION OF A/D MEMORY 41135 43-10 00 YOU USE OR REFER TO SAMPLE FUNCTION OF A/D ON VARIABLE TIME ANALOG-TO-DIGITAL (A/D) CONVERTER SPRED 90 TO WORD CAPACITY OF GII36 G3-II DO TOU USE OR REFER TO HOLD FUNCTION OF OR REFER TO COMPARE FUNCTION REG TAPES MAGNETIC CORUMS SINIT MAGNETIC TO ACCESS SELECTED 0 0 25 CC 101 103 34 103 101 103 101 CC 以 医 等 医 於 のでする REFER と 日本 日本 DIGITAL (A/D) CONVERTERS αţ PASSED PETERNINE × 60 DO YOU USE ON RE DO YOU USE OR REIN YOU NOW PRESENT TASK GROUP SUMMARY PERCENT NEMBERS PERFORMING E O × e YES # MOHR SYSTEMS TYOU USE USE RESPONDING YOU 81137 93-12 00 TOU CONVERTERS CONVERTERS CONVERTERS COMVERTERS RESISTORS 2-03 DO 7 VOL TAGES CIRCUITS 00 SYSTEMS MEMORY GROUP SHIFT 55-03 91138 93-13 95-26 92-08 91125 92-09 92-03 02-04 50-20 02-07 43-01 MBRS 61139 91118 91132 21123

2

2

2

=

Sign of the same

PHOTO SENSITIVE DEVICES TRIGGERS PHANTASTRONS INPUT/OUTPUT FABRICATION (CHOPPER CIRCUITS) INFRARED DEVICES SANCHEONOUS SCHMITT CABLE 220 SPC 075 . 35 17 17 0 000 0 0 SPC 074 0 0 250 0 0 0000 00000 0 0 0 0 25 0 52 52 20 5PC 073 5 26 2 N 00 58 3.4 . 00000 0 0 0 0 17 5 PC 072 26 ~ 00 ~ 2 27 26 1 9 0 00000 0 0 0 0 SPC 071 0000 0 a a 0 0 0 0 0 0 0 0 100 00 00000 C SPC 33 67 330 35 0 0 a a 0 a 0 0 5 PC 50 20 a 0 0000 0 0 0 0 0 00000 0 0 0 0 25 + GPSM4B PAGE 590 75 75 25 63 5.8 25 33 42 2 6 67 33 58 67 83 83 5PC 066 67 47 58 58 25 83 3 240 00 2020 20 0,9 0,9 200 20 20 40 0 40 30 40 02 80 000 0 20 20 5 PC 25 = == 21 2 17 75 2 2 BOOLEAN ALGEBRA 2-01 DO YOU WORK WITH PHOTO TUBES IN YOUR PRESENT JOB 3-01 IN YOUR PRESENT JOB DO YOU WORK WITH CHOPPER CIRCUITS WORK WITH SCHMITT TRIGGER RILM3 R2-03 DO YOU USE OR REFER TO SCHMITT TRIGGER LOGIC SYMBOLS HILM R3-01 IN YOUR PRESENT JOB DO YOU FABRICATE MULTICONDUCTOR WITH YOU USE EMROR SIGNAL DEVICES IN COMJUNCTION WITH MEASURE YOLTAGE -CURRENT PHASE RELATIONSHIPS TOU USE COMPARISON CIRCUITS IN CONJUNCTION WITH VISUAL READOUT SYSTEMS SI-02 DO YOU PERFORM ANY TASKS ON NIXIE LIGHTS OR NIXIE LIGHT DECODER SYSTEMS YOU ANALYZE MIXIE LIGHT DECODER SYSTEMS USING INFRARED INFRARED YOU USE DETECTORS IN CONJUNCTION WITH CHOPPER DEALING R2-02 DO YOU TRACE DATA FLOW THROUGH SCHMITT TRIGGER CIRCUITRY IN YOUR YOU USE OR REFER TO EXCITATION FREQUENCIES YOU USE OR REFER TO VOLTAGE-CURRENT PHASE RELATIONSHIPS 53-06 DO YOU USE SERVOS IN CONJUNCTION WITH CHOPPER RII45 R3-02 DO YOU FARRICATE COAXIAL CABLES SII46 SI-01 IN YOUR PRESENT JOB DO YOU PERFORM ANY TASKS 0 CLEAN INFRARED SYSTEMS ADJUST OR CALIBRATE INFRARED SYSTEMS OPERATE INFRARED SYSTEMS INFRARED SYSTEM MAJOR ASSEMBLIES INFRARED SYSTEM TASKS 30 10 DO YOU MEASURE EXCITATION FREQUENCIES TROUBLESHOOT WIRE CONNECTIONS A SSEMBLIES CHOPPER CIRCUIT OPERATION SYSTEMS GRPS WORK WITH PHANTASTRON 10 SELECTED MAJOR REPLACE REPLACE 4 400 DO YOU INSPECT INFRARED 00 DY-15K CHOPPER CIRCUIT OPERATION IN YOUR PRESENT JOB TOU TROUBLESHOOT TOU TROUBLESHOOT H ax o N O TASK GROUP SUMMARY PERCENT MEMBERS PERFORMING TOU REMOVE TI-ID DO TOU REMOVE SCHEMATIC DIAGRAMS OPERATION OPERATION INFRARED SYSTEMS NFRARED SYSTEMS COMPONENT PARTS COMPONENT PARTS MBRS RESPONDING 400 100 400 YOU 100 YOU CIRCUITS 00 00 00 51-03 00 CIRCUIT 53-07 00 CIRCUIT 53-08 00 00 00 00 11-09 00 RZ-01 IN 00 SYSTEMS SYSTEMS CABLES 11-02 -00 51149 52-01 53-05 53-05 11-03 11-07 81-01 53-03 53-04 51150 53-01 11-04 51148 51158 11159 R1140 15115 51154 11163 R1142 51153 51155 51156 51157 51147 51152 11160 11162 71145 11166 71168 11161 11167 PCT

SELECTED RESPONDING

PAGE

LASERS 5 PC 5 PC 5PC 072 O 0 0 0 0 0 0 0 5 PC O NO HILL FER TO ELECT.

REFER TO EXCITED STATE.

OR REFER TO PACKET OF RADIATI.

OR REFER TO PACKET OF RADIATI.

OR REFER TO SPONTAMEDUS EMISSION

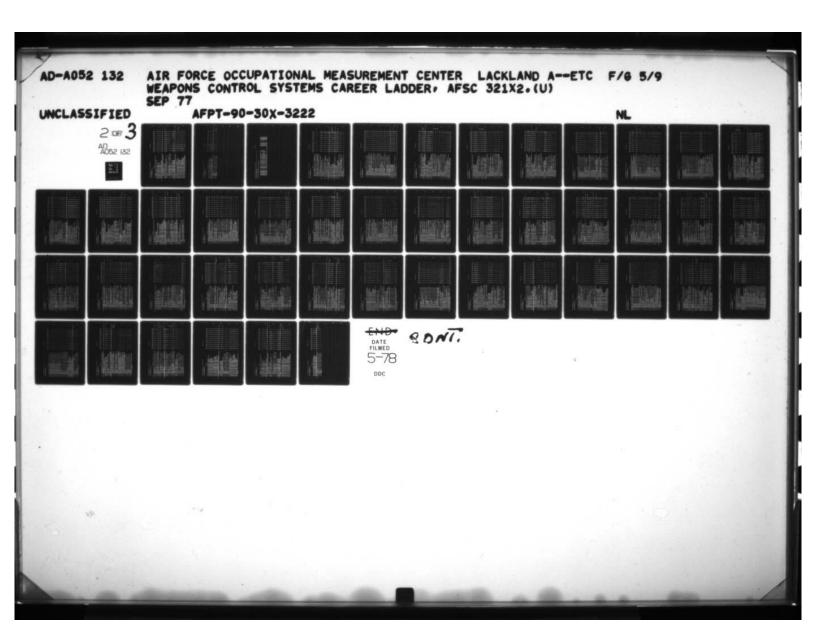
SE OR REFER TO STAULATED EMISSION

OR REFER TO STAULATED EMISSION

OR REFER TO INVERSION LEVEL

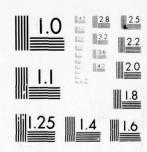
OR TO MATERIALS

OF 11008 REFLET LASER MIRRORS ANY TASKS DEALING YOU TROUBLESHOOT TO COMPONENT PARTS OF LASER MAJOR ASSEMBLIES OF LASER MAJOR ASSEMBLIES OF OF COMPONENT PARTS OR REPLACE REPLACE YOU TROUBLESHOOT REMOVE REMOVE ASK GROUP SUMMARY 12-03 DO YOU CLE 12-04 DO YOU OPE 12-05 DO YOU OPE 12-06 DO YOU TR YOU 12-07 00 SYSTEMS 12-08 DO SYSTEMS 12-09 DO SYSTEMS 12-09 12-10 13-15



2 OF

AD A052 132



MICROCOPY RESOLUTION TEST CHART NATIONAL BUREAU OF STANDARDS-1963-4

DISPLAY TUBES PROCRAMMING 5PC 075 00000000 - 200 2 00000 ? 25 000000000 SPC 074 0 000000000 25 5PC 073 0000000 ; 20 0 SPC 072 0 00000000 20 : 0 = 5°C a 00000000 88 988 a dododo 00000000000000 0 8 9 SPC 070 000000000 23282 9 6 260 200 00000000000000 00 100 23252 GPSH4B PAGE SPC 067 000000000 36 0 22222 5PC 0 000000000 75 75 26 27 27 28 42 0 15 22525 50 50 5PC 065 0 2 00000000000000 0 00000000 80 22999 0 33339 000000000 20000 2255 25 7 YOU MORK WITH GALLIUM ARSENIDE
YOUR PRESENT JOB DO YOU WORK WITH DISPLAY TUBES,
DIRECT VIEW STORAGE (DYST) OR MULTIPLE MODE
TUBES (MMST)
YOU INSPECT DYST OR MMST
YOU CLEAN DYST OR MMST
YOU ADJUST OR CALIBRATE DYST OR MMST T1227 T3-08 DO YOU PERFORM TASKS THAT MAKE IT NECESSARY TO NAME
THE VARIOUS ELEMENTS OF DOST
THE VARIOUS ELEMENTS OF MAST
THE VARIOUS
T1230 T3-11 DO YOU PERFORM TASKS ON MRITE GUNS
T1231 T3-12 DO YOU PERFORM TASKS ON MAST
T1232 T3-13 DO YOU PERFORM TASKS ON MASS
T1233 T3-14 DO YOU PERFORM TASKS ON STORAGE GNIDS
T1233 T3-14 DO YOU PERFORM TASKS ON STORAGE GNIDS
U1234 U1-01 IN YOUR PRESENT JOB: DO YOU PERFORM ANY PROGRAMMING THE FER TO HEXIDECINAL SYSTEMS

THE FER TO HEXIDECINAL SYSTEMS

THE FER TO BOARTY SYSTEMS

THE FER TO BOARTY SYSTEMS

THE FER TO BOARTY SYSTEMS

THE FER TO TO THE "SYARING TO BOARTY SYSTEMS

THE FER TO ADDRESS WORDS

THE FER TO IMPORMATION WORDS

THE TASKS ON SINGLE LEVEL PROGRAMMING

THE TASKS ON HULTI-LEVEL PROGRAMMING DO YOU REMOVE OF REPLACE DVST OR MMST TUBES FROM ASSEMBLIES OR UNITS WITH HALF SILVERED 1928 REFLECTIVE! T3-04 DO YOU ADJUST OR CALIBRATE DYST OR WHST 13-05 DO YOU OPERATE SYSTEMS THAT CONTAIN DVST OR T3-06 DO YOU TROUBLESHOOT DVST OR MMST DECIMAL SYSTEMS WITH ARGON HELICAL FLASHTUBES RUBY MORK WITH MELIUN-NEON
MORK WITH MELIUM-XENON
MORK WITH XENON
U WORK WITH XENON PCT MBRS RESPONDING .YES' BY SELECTED GRPS PERFORM TASK GROUP SUNMARY PERCENT HEMBERS PERFORMING MONK MORK 13-07 DO YOU 3333 3666 33333 400 CIRCUITS 5108AGE 13-02 DO MAJOR 12-34 SUCH 25.5 12-21 12-32 13-03 12-30 12-31 3-0 01-02 01-03 10-10 01-10 0-10 ---01-12 01-07 11210 11212 71217 11225 11224 T1221 01235

=

8

=

8

.

PCT MBMS RESPONDING *YES* BY SELECTED GRPS
TABULATION OF ELECTRONIC PRINCIPLES UTILIZATION DATA FOR SELECTED GROUPS
IN THE 321X2 CAREER FIELD.

GPSH4C PAGE

というな 養養になるというかに、食いいこう

REPORTS ON THE FOLLOWING GROUPS MERE REQUESTED

BERS.	BERS.	BERS.	MEMBERS.	BERS.	BERS.	BERS.	BERS.	BERS.	BERS.	WFRS.
H H	MEN	HE M	MEM	HE H	MEN	MEN	MEN	HEH	MEN	H. H
7	-	•	45	-	37	0.	5	9	17	-
CONTAINING	CONTAINING	CONTAINING	CONTAINING	CONTAINING	CONTAINING	CONTAINING	CONTAINING	CONTAINING	CONTAINING	PATATATAC.
										MANDS
USAFE	PACAF		CONUS	ERSEAS) V	USAFE	PACAF		AC.	OTHER
0	0		~	0	0	2	2		0	-
SSIGNED	SSIGNED	•	TATIONE	TATIONE	SIGNED	SSIGNED	SSIGNED	5	SIGNED	SIGNED
32152P A	32152P A	SC 32152	L ANN DAFSC 321524 STATIONED IN CONUS	321529 5	321529 AS	321529 4	321529 4	SC 32152	321525 AS	121525 49
DAFSC	DAFSC	IEN DAF	DAFSC	DAFSC	DAFSC	DAFSC	DAFSC	IEN DAF	DAFSC	DAFE
ZZ	H	AIR	ZH	Z	ME	Z	ZH	AIR	MA	2 2 4
ALL	ALL	ALL	ALL	ALL	ALL	ALL	ALL	ALL	ALL	111
SPC 226	SPC227	5PC228	SPC229	SPC230	SPC231	SPC232	500233	SPC234	SPC235	SPC234
	•		•	•	•			•	•	
DENTITY	DENTITY	IDENTITY	I DENTITY .	IDENTITY	TOENTITY	IDENTITY	IDENTITY	10ENTITY	IDENTITY	TOFATITY
ROUP	ROUP	ROUP	GROUP	ROUP						

PCT MBRS RESPONDING .YES. BY SELECTED GAPS

GPSH4C PAGE 2

TASK GROUP SUNMERY
DERFORM MEMBERS PERFORMING

A 1-0		DY-15K	5PC 226	245	5PC 228	5PC 229	20°5	231	\$PC 232	233	5PC 239	235 235	SPC 236	
10 10 10 10 10 10 10 10		AI-DI IN YOUR PRESENT JOB, DO YOU USE INSTRUMENTS, SUCH A METERS OR OSCILLÓSCOPES, IN WHICH IT IS NECESSARY TO AMPLIFY OR ATTENUATE VOLTAGE, RESISTANCE, ETC., BY POWER	001	\$	22	17	8	0,	001	0	•	\$	100	
100 100		OF 10. A1-02 DO YOU USE PUBLICATIONS, SUCH AS A TECHNICAL ORDER A1-03 DO YOU USE WANUALS, IN WHICH IT IS NECESSARY FOR YO TO MULTIPLY OR DIVIDE BY A POWER OF 10 BEFORE YOU CAN APPLY THE INFORMATION FROM THE PUBLICATION IN A USEFUL	8.5	a	*	*	7	0.	•	•	8	2	001	MATHEMATICS
100		ON THE JUB. A1-03 DO YOU REARRANGE AND SOLVE FORMULAS OR A1-04 DO YOU CALCULATE THE SOLASE ROOT OF A	1.1	50		÷ •	-	0 0	20	20	2 =		100	
100 100		AL-05 DO YOU SOLVE FOR UNKNOWN DUANTITIES.	\$2	• •	2,	22	25	-	30	50	77		000	
A1-08 DOT 700 USE THE MATCHEL STEEM OF LOGARITHMS. A1-10 DOT 700 USE FUR MATCHEL ON VECTOR QUARTITIES. A1-10 DOT 700 VERFORM CALCULATORS ON VECTOR QUARTITIES. A1-11 DOT 700 VERFORM CALCULATORS ON VECTOR QUARTITIES. A1-12 DOT 700 VERFORM CALCULATORS ON VECTOR QUARTITIES. A1-13 DOT 700 VERFORM CALCULATORS ON VECTOR QUARTITIES. A1-14 DOT 700 VERFORM CALCULATORS ON VECTOR QUARTITIES. A1-15 DOT 700 VERFORM CALCULATORS ON VECTOR QUARTITIES. A2-20 DOT 700 VERFORM CALCULATORS ON VERFORM. A3-20 DOT 700 VERFORM CALCULATORS ON VERFORM.		AI-DY DO YOU USE LOGARITHM TABLES IN ANY TYPE	0	00	•	•	0 0	S	0 0	202	•	0	100	
A1-09 DO TOU USE THE ATERIAL STEEL OF LOGALITHES. A1-10 DO TOU USE THE ATERIAL STEEL OF LOGALITHES. A1-10 DO TOU WORK WITH TRIGONOMETRIC FUNCTIONS SUCH AS 17 10 2 2 1 10 2 2 1 10 0 0 10 0 10 0 1		A1-08 DO YOU SOLVE QUADRATIC EQUATI	0	0	5	7	13	•	10	20	=	•	100	
A1-10 OYOU WORK WITH TRIGORDAYS ON VETTOR QUANTITIES. 5 18. 10 OYOU WORK WITH TRIGORDAYS ON VETTOR QUANTITIES. 5 18. 10 OYOU WORK WITH TRIGORDAYS ON VETTOR QUANTITIES. 5 18. 10 OYOU WORK WITH TRIGORDAYS COUNTITIES. 5 18. 10 OYOU SOLVE ON USE SHULLTAMEOUS EQUATIONS. 5 18. 10 OYOU SOLVE ON USE SHULLTAMEOUS EQUATIONS. 5 18. 10 OYOU SOLVE ON USE SHULLTAMEOUS EQUATIONS. 5 18. 10 OYOU SOLVE ON USE SHULLTAMEOUS EQUATIONS. 5 18. 10 OYOU SOLVE ON USE SHULLTAMEOUS EQUATIONS. 5 18. 10 OYOU SOLVE ON USE SHULTAMEOUS EQUATIONS. 5 20 OYOU USE THE TERM OLIVE. 5 20 OYOU USE THE TERM OLIVE		AI-OF DO YOU USE THE NATURAL SYSTEM O	0	0	2	•	4	S	d	20	•	0	00	
\$18. COSINE, ON TANGENE, OF PLANE FIGURES. \$1. I		AI-10 DO YOU PERFORM CALCULATIONS ON AI-11 DO YOU WORK WITH TRIGONOMETRIC	9 1	• =	5.0	- 2	• :	5 2	۰ -	20	28	7 * 2	000	
A1-11 DO 700 SQLVE OR USE SINCHEANEOUS EQUATIONS. A2-01 DO 700 SQLVE OR USE SINCHEANEOUS EQUATIONS. A2-01 DO 700 SQLVE OR USE SINCHEANEOUS EQUATIONS. A2-02 DO 700 USE THE TERM FOLTAGE OR VOLT IVI. A2-03 DO 700 USE THE TERM FOLTAGE OR VOLT IVI. A2-04 DO 700 USE THE TERM FOLTAGE OR VOLT IVI. A2-05 DO 700 USE THE TERM FOLTAGE OR VOLT IVI. A2-05 DO 700 USE THE TERM FOLTAGE OR VOLT IVI. A2-05 DO 700 USE THE TERM FOLTAGE OR VOLT IVI. A2-05 DO 700 USE THE TERM FOLTAGE A3-07 DO 700 USE THE TERM FOLT		SINE, COSINE, OR TANGENT. AI-12 DO YOU DETERMINE AREAS OF PLANE F	0	•	•	~	•	7	d	20	=	•	100	
A2-01 DO YOU USE THE TERM VOLTAGE OR VOLT IV). A2-02 DO YOU USE THE TERM VOLTAGE OR VOLT IV). A2-03 DO YOU USE THE TERM VOLTAGE OR VOLT IV). A2-04 DO YOU USE THE TERM AND THE. A2-05 DO YOU USE THE TERM AND		AI-13 DO YOU SOLVE OR USE SIMULTANEOUS	•		- =	- =	•=	.n 🕶	0 0	20	• •	0 0	000	
A2-02 DO YOU USE THE TERM CLECTHONOTIVE FORCE (EMF). A2-03 DO YOU USE THE TERM ONH. A2-03 DO YOU USE THE TERM ONH. A2-04 DO YOU USE THE TERM ONH. A2-05 DO YOU USE THE TERM AMPRE. A2-07 DO YOU USE THE TERM AMPRE. A3-07 DO YOU USE THE TERM AMPRE. A3-08 DO YOU AMPRE. A3-09 DO YOU WE WELLET TO RESISTORS. A3-09 DO YOU WE WELLET TO RESISTORS. A3-09 DO YOU USE OR REFER TO TEMPERATURE COEFFICIENTS FOR THE THE TO TEMPERATURE COEFFICIENTS FOR THE THE TO RESISTORS SYMBOLS ON TAMPE OR ESISTOR SYMBOLS. A3-09 DO YOU USE OR REFER TO RESISTORS YNDOWNER THE OSTAT, OR THINDSTATOR THE		AZ-01 DO YOU USE THE TERM VOLTAGE OR VO	100	2	87	8		-8	100	08	.0	8	8	
A2-09 DO TOU USE THE TERN DAYNE. A2-05 DO TOU USE THE TERN DAYNE. A2-05 DO TOU USE THE TERN DAYNE. A2-06 DO TOU USE THE TERN DAYNE. A2-06 DO TOU USE THE TERN DAYNE. A2-07 DO TOU USE THE TERN MUTRON. A2-08 DO TOU USE THE TERN MUTRON. A2-09 DO TOU USE THE TERN MUTRON. A2-09 DO TOU USE THE TERN MOTOUN. A2-09 DO TOU USE THE TERN MOTOUN. A3-09 DO TOU WORK WITH RESISTORS. A3-09 DO TOU WORK WITH RESISTORS. A3-09 DO TOU WORK WITH RESISTORS. A3-09 DO TOU USE OR RESISTORS. A3-09 DO TOU USE OR RESISTORS. A3-09 DO TOU USE OR REFER TO TEMERATE COFFICIENTS FOR THE TOTAL COFFICIENTS TO TOTAL COFFICIENTS FOR THE TOTAL COFFICIENTS TO TEMERATE TO		A2-02 DO YOU USE THE TERM ELECTROMOTIVE	33	= 2	2	7	52	77	200	0 0	23	9 2	00	
A2-05 DO YOU USE THE TERM DATE. A2-07 DO YOU USE THE TERM NEMPER. A2-07 DO YOU USE THE TERM NEMPER. A2-07 DO YOU USE THE TERM NEMPER. A2-08 DO YOU USE THE TERM NEMPER. A2-08 DO YOU USE THE TERM NEMPER. A2-09 DO YOU USE THE TERM NEMPER. A3-09 DO YOU USE THE TERM THE		A2-04 DO YOU USE THE TERM	•	23	2	2	-	•	9	20	=	•	00	DIRECT CURRENT
A2-07 DO YOU USE THE TERM NEUTRON. A2-08 DO YOU USE THE TERM NEUTRON. A2-09 DO YOU USE THE TERM COULCHB. A2-09 DO YOU USE THE TERM COULCHB. A2-09 DO YOU USE THE FERN FORDON. A2-09 DO YOU USE THE FERN FORDON. A3-01 DO YOU USE THE FERN FORDON. A3-02 DO YOU USE THE FERN FORDON. A3-03 DO YOU CLEAN RESISTORS. A3-03 DO YOU CLEAN RESISTORS. A3-03 DO YOU CHECK NETSISTORS. A3-04 DO YOU CHECK NETSISTORS. A3-05 DO YOU USE OR REFER TO TEMPERATURE COEFFICIENTS FOR 33 31 23 29 100 47 71 00 47		A2-05 DO 700 USE THE A2-06 DO 700 USE THE	• ·	- ?	- *	٠ ,	• =	~ *	0 5	20	=5	• •	000	AND VOLTAGE
A2-09 DO YOU USE THE TERM COULONG. A2-09 DO YOU USE THE TERM COULONG. A2-09 DO YOU USE THE TERM PROTON. A2-09 DO YOU USE THE TERM PROTON. A3-02 DO YOU USE THE RESISTORS. A3-02 DO YOU USE PERSISTORS. A3-03 DO YOU LEAM RESISTORS. A3-03 DO YOU CLEAM RESISTORS. A3-04 DO YOU CLEAM RESISTORS. A3-05 DO YOU USE OF METALOR COFFICIENTS FOR 33 31 23 24 19 16 20 33 35 100 RESISTORS YOU PERFORM. A3-06 DO YOU USE OF METER TO RESISTORS YOU WORK 92 64 65 64 67 65 100 MT AS CARBON, FIRED WIRE, SLIDE TAP, MEGSTAT, OR A3-07 DO YOU USE OF METER TO RESISTORS YOU WORK 92 54 56 63 47 70 60 67 65 100 MT AS CARBON, FIRED WIRE, SLIDE TAP, MEGSTAT, OR A3-07 DO YOU USE WEESISTOR COLOR COPES WHICH INDICATE OWNIC 92 67 62 5 5 5 6 63 47 70 60 67 65 100 MT AS CARBON, FIRED WIRE, SLIDE TAP, MEGSTAT, OR A3-07 DO YOU USE WEESISTOR COLOR COPES WHICH INDICATE OWNIC 92 67 62 5 5 5 70 60 67 57 100 MT AS CARBON, FIRED WIRE, SLIDE TAP, MEGSTAT, OR A3-07 DO YOU USE WEESISTOR COLOR COPES WHICH INDICATE OWNIC 92 67 62 5 5 5 5 5 5 5 5 5 5 5 5 5 5 5 5 5 5	-	A2-07 DO YOU USE THE TERM	11	53		•	•		0	20	•	0	00	
A3-01 DO TOU WORK WITH RESISTORS IN YOUR PRESENT JOB. 92 77 67 73 50 70 50 60 78 76 100 A3-02 DO TOU LAGAR RESISTORS. A3-03 DO TOU LAGAR RESISTORS. A3-04 DO TOU ALLAR RESISTORS. A3-05 DO TOU ALLAR RESISTORS. A3-06 DO TOU ALLAR RESISTORS. A3-06 DO TOU BE OF REFER TO TEMPERATURE COEFFICIENTS FOR 33 31 23 29 19 16 20 33 29 100 A5-15 DO TOU USE OR REFER TO RESISTOR SYMBOLS SUCH AS FIXED. A3-06 DO TOU USE OR REFER TO RESISTOR SYMBOLS. A3-06 DO TOU USE OR REFER TO RESISTORS TOU WORK. A3-06 DO TOU USE OR REFER TO RESISTORS TOU WORK. A3-06 DO TOU USE WITE, SLIDE TAP. RHEOSTAT, OR POTENTIONER. A3-10 DO TOU USE RESISTOR COLOR CODES WHICH INDICATE OMNIC. A3-10 DO TOU USE RESISTOR COLOR CODES WHICH INDICATE OMNIC. A3-10 DO TOU USE RESISTOR COLOR CODES WHICH INDICATE OMNIC. A3-10 DO TOU USE RESISTOR COLOR CODES WHICH INDICATE OMNIC. A3-10 DO TOU USE RESISTOR COLOR CODES WHICH INDICATE OMNIC. A3-10 DO TOU USE WESSISTOR COLOR CODES WHICH INDICATE OMNIC. A3-10 DO TOU USE WESSISTOR COLOR CODES WHICH INDICATE OMNIC. A3-10 DO TOU USE WESSISTOR COLOR CODES WHICH INDICATE OMNIC. A3-10 DO TOU USE WESSISTOR COLOR CODES WHICH INDICATE OMNIC. A3-10 DO TOU USE WESSISTOR COLOR CODES WHICH INDICATE OMNIC. A3-10 DO TOU USE WESSISTOR COLOR CODES WHICH INDICATE OMNIC. A3-10 DO TOU USE WESSISTOR COLOR CODES WHICH INDICATE OMNIC. A3-10 DO TOU USE WESSISTOR COLOR CODES WHICH INDICATE OMNIC. A3-10 DO TOU USE WESSISTOR COLOR CODES WHICH INDICATE OMNIC. A3-10 DO TOU USE WESSISTOR COLOR CODES WHICH INDICATE OMNIC. A3-10 DO TOU USE WESSISTOR COLOR CODES WHICH INDICATE OMNIC. A3-10 DO TOU USE WESSISTOR COLOR		A2-09 DO YOU USE THE TERM COULONS A2-09 DO YOU USE THE TERM PROTON.	- 1	53	- - -	•	•	-	a c	20	• •	00	000	
A3-02 DO 70U INSPECT RESISTORS. A3-03 DO 70U LINSPECT RESISTORS. A3-04 DO 70U CHECK OHNIC VALUE OR RESISTORS. A3-05 DO 70U USE ON REFER TO TEMPERATURE COEFFICIENTS FOR 33 31 23 29 19 16 20 33 29 100 A5150R SYMBOLS SUCH AS FIXED. A3-06 DO 70U USE ON REFER TO RESISTOR SYMBOLS. A3-06 DO 70U USE ON REFER TO RESISTOR SYMBOLS. A3-07 DO 70U USE ON REFER TO RESISTORS YOU WORK. POTENTIONER. A3-06 DO 70U USE MESSISTOR COLOR CODES WHICH INDICATE OHNIC. A3-06 DO 70U USE MESSISTOR COLOR CODES WHICH INDICATE OHNIC. A3-07 DO 70U USE MESSISTOR COLOR CODES WHICH INDICATE OHNIC. A3-07 DO 70U USE MESSISTOR COLOR CODES WHICH INDICATE OHNIC. A3-07 DO 70U USE WESSISTOR COLOR CODES WHICH INDICATE OHNIC. A3-07 DO 70U USE WESSISTOR COLOR CODES WHICH INDICATE OHNIC. A3-07 DO 70U USE WESSISTOR COLOR CODES WHICH INDICATE OHNIC. A3-07 DO 70U USE WESSISTOR COLOR CODES WHICH INDICATE OHNIC. A3-07 DO 70U USE WESSISTOR COLOR CODES WHICH INDICATE OHNIC. A3-07 DO 70U USE WESSISTOR COLOR CODES WHICH INDICATE OHNIC. A3-07 DO 70U USE WESSISTOR COLOR CODES WHICH INDICATE OHNIC. A3-07 DO 70U USE WESSISTOR COLOR CODES WHICH INDICATE OHNIC. A3-07 DO 70U USE WESSISTOR COLOR CODES WHICH INDICATE OHNIC. A3-07 DO 70U USE WESSISTOR COLOR CODES WHICH INDICATE OHNIC. A3-07 DO 70U USE WESSISTOR COLOR CODES WHICH INDICATE OHNIC. A3-07 DO 70U USE WESSISTOR COLOR	1	A3-01 00 TOU WORK WITH RESISTORS IN	42	11	63	13	20	20	20	0		7.6	100	
A3-09 DO TOU CLEAR RESISTORS. A3-09 DO TOU CLEAR RESISTORS. A3-09 DO TOU CHECK OHMIC VALUE OR RESISTORS. A3-05 DO TOU USE OR REFER TO RESISTOR STABOLS SUCH AS FIXED. A3-06 DO TOU USE OR REFER TO RESISTOR STABOLS. A3-07 DO TOU USE OR REFER TO RESISTOR STABOLS. A3-09 DO TOU USE OR REFER TO RESISTORS TOU WORK. A3-09 DO TOU USE WIRE. A4-09 DO TOU		A3-02 DO YOU INSPECT RESISTORS	2 :	? ?	•	;	::	3 9	•	9	::	\$:	8 '	
A3-05 DO YOU CHECK CHRIC VALUE OR RESISTORS. A3-05 DO YOU CHECK CHRIC VALUE OR RESISTORS. A3-05 DO YOU GENEVE OR REPLACE RESISTORS. A3-05 DO YOU GENEVE OR REPLACE RESISTORS. A3-05 DO YOU USE OR REFER TO TEMPERATURE COEFFICIENTS FOR 33 31 23 29 19 16 20 33 29 100 A51-05 DO YOU USE OR REFER TO RESISTOR SYMBOLS SUCH AS FIXED. A3-06 DO YOU USE OR REFER TO RESISTOR SYMBOLS SUCH AS FIXED. A3-06 DO YOU USE OR REFER TO RESISTOR SYMBOLS SUCH AS FIXED. A3-07 DO YOU USE OR REFER TO RESISTOR SYMBOLS. A3-08 DO YOU USE WIRE, SLIDE TAP. RHEOSTAT, OR POTENTIONER. A3-10 DO YOU USE RESISTOR COLOR CODES WHICH INDICATE OHMIC. A3-10 DO YOU USE RESISTOR COLOR CODES WHICH INDICATE OHMIC. A3-10 DO YOU USE RESISTOR COLOR CODES WHICH INDICATE OHMIC. A3-10 DO YOU USE WESISTOR COLOR CODES WHICH INDICATE OHMIC. A3-10 DO YOU USE WESISTOR COLOR CODES WHICH INDICATE OHMIC.	-	100 00 TOTAL	20	2			-	2 4	9	2		25	9	
A3-06 DO YOU NEHOVE OR REPLACE RESISTORS. A3-07 DO YOU USE OR REFER TO TEMPERATURE COEFFICIENTS FOR 33 31 23 29 19 16 20 20 33 29 75 51 56 99 70 90 67 71 751 751 751 751 751 751 751 751 751		A3-05 DO YOU CHECK OHMIC VALUE OR R	2.6	12	23	3	5	5.2	2.9	9	72	: =	88	RESISTANCE
RESISTORS ON ANY TASKS YOU PERFORM. A3-06 DO TOU USE OR REFER TO RESISTOR STHBOLS SUCH AS FIXED 92 62 66 67 63 62 60 60 67 65 RESISTOR STWBOLS OR TAPPED RESISTOR STHBOLS. A3-07 DO TOU DEMITITY OR CLASSIFY THE RESISTORS YOU WORK 92 59 59 56 63 49 70 60 67 65 MITH AS CARBON, FIXED WIRE, SLIDE TAP, RHEOSTAT, OR POTENTIONETR. A3-10 DO TOU USE RESISTOR COLOR CORES WHICH INDICATE OHMIC 92 69 62 62 63 57 70 60 61 59		A3-04 DO YOU REMOVE OR REPLACE RESISTORS.	25	2:	25	2.	26	: :	0,0	2 6	3:		0 0	
RESISTOR SYMBOLS OR TAPPED RESISTOR SYMBOLS. A3-09 DO YOU IDENTIFY OR CLASSIFY THE RESISTORS YOU WORK 92 59 59 58 63 49 70 60 67 65 MITH AS CARBON, FIXED WIRE, SLIDE TAP, RHEOSTAT, OR POTENTIONETER, A3-10 DO YOU USE RESISTOR COLOR CODES WHICH INDICATE OHMIC 92 69 62 62 53 57 70 60 61 59		RESISTORS ON ANY TASKS YOU PERFORM.	2		: :	:		3	9	9			2 2	
MITH AS CARBON, FIXED WIRE, SLIDE TAP, PHEOSTAT, OR POTENTIONGIER, A1-10 DO TOU USE RESISTOR COLOR CODES WHICH INDICATE OHMIC 92 69 62 62 53 57 70 60 61 59		AS-UP DO YOU JOENTIFY OR CLASSIFY THE RESISTORS YOU MO	*	5	5.	3	• • • • • • • • • • • • • • • • • • • •	•	2	3	:	\$	100	
A3-10 DO TOU USE RESISTOR COLOR CODES WHICH INDICATE OHMIC 92 69 62 62 63 57 70 60 61 59		TAP, RHEOSTA												
		A3-10 DO YOU USE RESISTOR COLOR CODES WHICH INDICATE	4.5	Ş	62	77	63	57	10	0.4	•	20	100	

PCT MBRS RESPONDING .TES" BY SELECTED GRPS

GPSM4C PAGE 3

597 597 <th></th> <th></th> <th></th> <th></th> <th></th> <th></th> <th>-</th> <th></th> <th></th> <th></th> <th></th> <th>1</th> <th></th> <th></th>							-					1		
10. THE RESISTOR COLOR CODES WHICH INDICATE 10. 10. 10. 10. 10. 10. 10. 10. 10. 10.		DY-TSK	286	227	278 228	226	230	25.	25°C	233	234	235	236	
A	~	A3-11 DO YOU USE RESISTOR COLOR CODES WHICH	28	69	15	43	3	38	70	3	\$	23	001	
10	-	TATIONE MATE.	•	5	•	•	•	s	0	02	22	=	001	
Color Colo		THE OR WORK BATTERIES MUST AE CONNECTED TOGETHER TO	52	•		=	-	=	0	2	=	12	001	
AJ-14 00 00 US GR KRERE TO THE SCHEMENTS SHIGHT AJ-15 00 00 CALCULATE TOTAL UNREST FOR SERIES AJ-15 00 00 CALCULATE TOTAL UNREST FOR PARALLEL AJ-15 00 00 CALCULATE TOTAL		ACHIEVE A SPECIFIC VOLTAGE.	-											
A-15 50 TOU CALCULATE TOTAL MESISTANCE FOR SERIES 67 31 25 29 13 24 0 20 22 18 100 A-16 50 TOU CALCULATE TOTAL CUMRENT FOR SERIES 67 31 26 33 6 19 3 24 0 20 22 18 100 A-16 50 TOU CALCULATE TOTAL CUMRENT FOR SERIES 67 31 24 13 6 30 0 0 0 28 24 100 A-17 50 TOU CALCULATE TOTAL CUMRENT FOR SERIES 75 31 21 24 13 22 0 20 22 18 100 A-18 50 TOU CALCULATE TOTAL CUMRENT FOR SERIES 75 31 23 27 13 22 0 20 22 18 100 A-18 50 TOU CALCULATE TOTAL CUMRENT FOR SERIES 75 31 23 27 13 22 0 20 22 24 100 A-18 50 TOU CALCULATE TOTAL CUMRENT FOR SERIES 75 31 23 27 13 22 0 20 22 24 100 A-18 50 TOU CALCULATE TOTAL CUMRENT FOR SERIES 75 31 23 22 25 19 20 20 22 24 100 A-18 50 TOU CALCULATE TOTAL CUMRENT FOR SERIES 75 31 23 23 27 20 20 20 20 20 20 20 20 20 20 20 20 20	-	ABANA DO TOU USE OF REPER TO THE SCHEMATIC STRBOLS REPRESENT BATTERIES, FUSES, CONDUCTORS, LARPS, OR	*	8	11	00	69	2	20	•	2	6	001	
AND THE TOTAL CUMBENT FOR SERIES FOR SERIES 67 31 25 27 13 24 10 20 20 22 10 100 AND CALCULATE (MOLY IDAL VOLTAGE DROPS FOR SERIES 67 31 26 33 4 30 0 0 28 24 100 AND CALCULATE (MOLY IDAL VOLTAGE DROPS FOR SERIES 58 33 33 31 30 20 0 0 28 24 100 AND TOU CALCULATE FOR THE SISTANCE FOR SERIES FARALLEL 50 31 23 27 13 22 0 20 22 24 100 AND TOU CALCULATE FOR THE SISTANCE FOR SERIES FARALLEL 50 31 23 27 13 22 0 20 28 24 100 AND TOU CALCULATE FOR THE SISTANCE FOR SERIES 58 30 30 31 25 27 20 20 22 24 100 AND TOU CALCULATE FOR THE SISTANCE FOR SERIES 58 30 30 31 25 27 20 20 22 24 100 AND TOU CALCULATE FOR THE SISTANCE FOR PARALLEL 50 31 23 27 20 20 20 22 24 100 AND TOU CALCULATE FOR THE SISTANCE FOR PARALLEL 50 31 23 27 20 20 20 20 20 20 20 20 20 20 20 20 20	~	A3-15 DO YOU CALCULATE TOTAL RESISTANCE FOR SERIES RESISTIVE CIRCUITS.	2.8	;	ī	2	52	90	30	20	22	-	100	
RESISTIVE CIRCULATE POMER DISSIPATION FOR SERIES ASSISTIVE CIRCULATE RESISTIVE CIRCULATE R	-	AS-16 DO YOU CALCULATE TOTAL CURRE	20	=	25	62	-	5.	0	20	22	=	100	
ANALISE OF TOO CALCULATE POWER DISSIPATION FOR SERIES ASSISTING FOR CALCULATE FOR LESISTANCE FOR SERIES PARALLEL SALED OF TOO CALCULATE FOR LURENT FOR SERIES PARALLEL SALED OF TOO CALCULATE FOR CURENT FOR SERIES PARALLEL SALES OF TOO CALCULATE FOR CALCULATE FOR SERIES SALES OF TOO CALCULATE INDIVIDUAL VOLTAGE DROPS FOR SERIES SALES OF TOO CALCULATE INDIVIDUAL WOLTAGE DROPS FOR SERIES SALES OF TOO CALCULATE INDIVIDUAL SRANCH CURRENTS FOR TOO TOO CALCULATE INDIVIDUAL WOLTAGE DROPS FOR SERIES SALES OF TOO CALCULATE INDIVIDUAL SRANCH CURRENTS FOR TOO TOO CALCULATE INDIVIDUAL SRANCH CURRENTS FOR TOO TOO CALCULATE OF TOO CALCULATE FOR PARALLEL RESISTIVE CIRCULATE TOTAL CURRENT FOR PARALLEL RESISTIVE CIRCULATE TOTAL CALCULATE PROSTRICE TO TOU CALCULATE PROSTRICE TOTAL CALCULATE PROSTRICE TOTAL CALCULATE TO	-	AS-17 DO YOU CALCULATE INDIVIDUAL VOLTAGE DROPS FOR	13	=	3.6	33	•	9	0	0	28	*2	100	
ASSISTIVE CIRCUITS. RESISTIVE		A3-18 DO TOU CALCULATE PONER DISSIPATION FOR	52	=	12	5.8	-	22	0	20	22	=	001	
A3-20 DO TOU CALCULATE TOTAL CURRENT FOR SERIES FARALLEL SD 31 23 27 13 22 0 20 20 20 20 70 100 100 CALCULATE INDIVIDUAL VOLTAGE DROPS FOR SERIES 58 38 30 31 25 27 20 20 28 24 100 FRABALLEL RESISTIVE CIRCULTS. A3-21 DO TOU CALCULATE INDIVIDUAL BRANCH CURRENTS FOR 92 23 21 24 13 19 0 20 28 24 100 20 20 20 20 20 20 20 20 20 20 20 20 2		ALSISTING CINCULIS. AS-19 DO YOU CALCULATE TOTAL RESISTANCE FOR RESISTANCE FOR	28	:	33	25	-	90	50	0	28	52	100	
A3-21 DO YOU CALCULATE INDIVIDUAL VOLTAGE DROPS FOR SERIES 58 38 30 31 25 27 20 20 28 24 100 SERIES PARALLEL RESISTIVE CIRCULATE SERIES PARALLEL RESISTIVE CIRCULATE SERIES PARALLEL RESISTIVE CIRCULATE SA3-22 DO YOU CALCULATE FOWER DISSIPATION FOR SERIES 33 23 22 25 19 20 20 22 18 100 PARALLEL RESISTIVE CIRCULATE TO YOU CALCULATE TOTAL CURRENT FOR PARALLEL RESISTIVE SERIES PARALLEL RESISTIVE CIRCULATE TOTAL CI	-	A3-20 DO YOU CALCULATE TOTAL CURRENT FOR SERIES	90	=	23	27	13	22	0	20	28	52	100	
A 3-22 DO YOU CALCULATE INDIVIDUAL BRANCH CURRENTS FOR 42 23 21 24 13 19 0 20 22 24 100 SERIES PRAALEE RESISTIVE CIRCUITS. PARALLEE RESISTIVE CIRCUITS. PARALLEE RESISTIVE CIRCUITS. A 3-23 DO YOU CALCULATE FOURENT FOR PARALLEE RESISTIVE 50 31 25 27 20 20 33 29 100 R 3-24 DO YOU CALCULATE TOTAL CURRENT FOR PARALLEE RESISTIVE 50 31 25 27 20 20 33 29 100 A 3-25 DO YOU CALCULATE INDIVIDUAL VOLTAGE DROPS FOR 50 30 31 25 27 20 20 33 29 100 A 3-27 DO YOU CALCULATE INDIVIDUAL VOLTAGE DROPS FOR 50 30 30 31 25 27 20 20 33 29 100 PARALLEE RESISTIVE CIRCUITS. A 3-27 DO YOU CALCULATE POWER DISSIPATION FOR PARALLEE 33 15 22 25 19 20 20 20 20 20 20 20 A 3-27 DO YOU CALCULATE POWER DISSIPATION FOR PARALLEE 33 15 22 25 19 20 20 20 20 20 A 3-27 DO YOU REALES RESISTANCE. A 3-27 DO YOU REALES RESISTANCE. B 1-02 DO YOU REALES WE PAIR FOR FARELLEE 33 15 20 20 20 20 20 20 20 B 1-03 DO YOU REALES WE POLITIES. B 1-03 DO YOU REALES WE PAIR AMMETERS. B 1-03 DO YOU REALES WE PAIR AMMETERS. B 1-04 DO YOU REALES WE PAIR AMMETERS. B 1-05 DO YOU WE PAIR AMMETERS. B 1-05 DO YOU WE PAIR AMMETERS. B 1-06 DO YOU WE PAIR WE PAIR AMMETERS. B 1-06 DO YOU WE PAIR WE PAIR AMMETERS. B 1-06 DO YOU WE PAIR WE PAIR AMMETERS. B 1-06 DO YOU WE PAIR WE PAIR AMMETERS. B 1-06 DO YOU WE PAIR WE PAIR AMMETERS. B 1-06 DO YOU WE PAIR WE PAIR AMMETERS. B 1-06 DO YOU WE PAIR WE PAIR AMMETERS. B 1-06 DO YOU WE PAIR WE PAIR AMMETERS. B 1-06 DO YOU WE PAIR WE PAIR WE PAIR AMMETERS. B 1-06 DO YOU WE PAIR WE PAIR AMMETERS. B 1-06 DO YOU WE PAIR WE PAIR WE PAIR AMMETERS. B 1-06 DO YOU WE PAIR WE PAIR WE PAIR AMMETERS. B 1-06 DO YOU WE PAIR WE PAIR WE PAIR AMMETERS. B 1-06 DO YOU WE PAIR WE PAIR WE PAIR WE PAIR AMMETERS. B 1-06 DO YOU WE PAIR WE PAIR WE PAIR WE PAIR WE PAIR AMMETERS. B 1-06 DO YOU WE PAIR WE PAIR WE PAIR WE PAIR WE PAIR WE PAIR AMMETERS. B 1-06 DO YOU WE PAIR WE PA		A3-21 DO YOU CALCULATE INDIVIDUAL VOLTAGE DROPS FOR	25	=	30	=	25	12	20	20	2	2	001	
A3-23 DO YOU CALCULATE POWER DISSIPATION FOR SERIES A3-24 DO YOU CALCULATE POWER DISSIPATION FOR PARALLEL RESISTIVE CIRCULATE TOTAL CURRENT FOR PARALLEL RESISTIVE CIRCULATE TOTAL CURRENT FOR PARALLEL RESISTIVE CIRCULTS. A3-25 DO YOU CALCULATE INDIVIDUAL WOLTAGE DROPS FOR A3-25 DO YOU CALCULATE INDIVIDUAL WOLTAGE DROPS FOR A3-27 DO YOU CALCULATE INDIVIDUAL BRANCH CURRENTS FOR A3-27 DO YOU CALCULATE DAILY DAIL BRANCH CURRENTS FOR A3-27 DO YOU CALCULATE POWER DISSIPATION FOR PARALLEL RESISTIVE CIRCULTS. A3-28 DO YOU CALCULATE POWER DISSIPATION FOR PARALLEL B1-01 DO YOU REAURE VOLTAGE B1-03 DO YOU REAURE WOLTAGE B1-03 DO YOU REAURE WOLTAGE B1-04 DO YOU REAURE WOLTAGE B1-05 DO YOU REAURE CURRENTS B1-05 DO		STATES PARALLE RESISTIVE CIRCUITS	4.5	23	12	5.0	2	-	0	20	28	54	001	
A 1-24 DO VOU CALCULATE TOTAL RESISTANCE FOR PARALLEL RESISTIVE CIRCULATE TOTAL CURRENT FOR PARALLEL RESISTIVE A 1-25 DO VOU CALCULATE INDIVIDUAL VOLTAGE DROPS FOR SO 31 23 27 13 22 0 20 33 29 100 CIRCUTS. A 1-25 DO VOU CALCULATE INDIVIDUAL VOLTAGE DROPS FOR SO 23 23 23 27 13 22 0 20 33 29 100 PARALLEL RESISTIVE CIRCUITS. A 1-27 DO VOU CALCULATE INDIVIDUAL PRANCH CURRENTS FOR SO 23 23 23 27 13 22 0 20 20 28 29 100 PARALLEL RESISTIVE CIRCUITS. A 1-27 DO VOU CALCULATE POWER DISSIPATION FOR PARALLEL A 1-27 DO VOU CALCULATE POWER DISSIPATION FOR PARALLEL A 1-27 DO VOU MEASURE RESISTANCE. B 1-01 DU VOU MEASURE POLITERS. B 1-02 DO VOU REPAIR VOLTHEERS. B 1-03 DO VOU REPAIR VOLTHEERS. B 1-04 DO VOU REPAIR VOLTHEERS. B 1-05 DO VOU REPAIR VOLTHEERS. B 1-05 DO VOU REPAIR VOLTHEERS. B 1-06 DO VOU REPAIR VOLTHEERS. B 1-07 DO VOU USE MULTIMETERS. B 1-08 DO VOU USE MULTIMETERS. B 1-09 DO VOU DIRECTLY USE A QUANTITY OF CHARGE CALLED A 0 15 5 7 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	-	A3-23 DO YOU CALCULATE POWER DISSIPATION FOR	2	23	23	22	\$2	•-	30	20	22	•	001	
A 3-25 DO TOU CALCULATE TOTAL CUMMENT FOR PARALLEL RESISTIVE 50 31 23 27 13 22 0 20 33 29 100 CIRCUITS. A 3-25 DO TOU CALCULATE IMDIVIDUAL VOLTAGE DROPS FOR 50 23 23 23 27 13 22 0 20 20 39 29 100 PARALLEL RESISTIVE CIRCUITS. A 3-27 DO TOU CALCULATE IMDIVIDUAL BRANCH CURRENTS FOR 50 23 23 23 27 13 22 0 20 26 29 100 PARALLEL RESISTIVE CIRCUITS. A 3-27 DO TOU CALCULATE FOWER DISSIPATION FOR PARALLEL 33 15 23 22 25 17 20 20 20 20 100 PARALLEL RESISTIVE CIRCUITS. A 3-28 DO TOU REASIR RESISTANCE. B 1-02 DO TOU MEASURE RESISTANCE. B 1-03 DO TOU MEASURE RESISTANCE. B 1-04 DO TOU MEASURE RESISTANCE. B 1-05 DO TOU MEASURE RESISTANCE. B 1-05 DO TOU MEASURE CURRENTS. B 1-05 DO TOU MEASURE CURRENTS. B 1-06 DO TOU MEASURE CURRENTS. B 1-07 DO TOU MEASURE CURRENTS. B 1-06 DO TOU MEASURE CURRENTS. B 1-07 DO TOU MEASURE CURRENTS. B 1-08 DO TOU MEASURE CURRENTS. B 1-09 DO TOU MEASU		A3-24 DO YOU CALCLATE TOTAL RESISTANCE FOR	3	:	30	15	75	27	20	50	2	•	100	
CIRCUITS. CIRCUITS. AJ-24 DO VOU CALCULATE INDIVIDUAL VOLTAGE DROPS FOR 50 36 30 31 25 27 20 20 33 29 100 PARALLEL RESISTIVE CIRCUITS. AJ-27 DO YOU CALCULATE INDIVIDUAL BRANCH CURRENTS FOR 50 23 23 27 13 22 0 20 26 29 100 PARALLEL RESISTIVE CIRCUITS. AJ-28 DO YOU CALCULATE POWER DISSIPATION FOR PANALLEL 33 15 23 27 13 22 0 20 26 29 100 AS-28 DO YOU REASURE RESISTANCE. BI-01 DO YOU REASURE RESISTANCE. BI-02 DO YOU REASURE RESISTANCE. BI-03 DO YOU REASURE VOLTAGE. BI-03 DO YOU REASURE CURRENT. BI-04 DO YOU REASURE CURRENT. BI-05 DO YOU REASURE CURRENT. BI-05 DO YOU REASURE CURRENT. BI-05 DO YOU REASURE CURRENT. BI-06 DO YOU REASURE CURRENT. BI-07 DO YOU REASURE CURRENT. BI-08 DO YOU DIRECTLY USE A QUANTITY OF CHARGE CALLED A 0 15 5 7 0 6 5 0 0 6 100 BI-08 DO YOU DIRECTLY USE A QUANTITY OF CHARGE CALLED A 0 15 5 7 0 6 5 0 0 0 6 100 BI-08 DO YOU DIRECTLY USE A QUANTITY.		AT-25 DO YOU CALCULATE TOTAL CURRENT FOR PARALLEL	20	=	23	12	-	12	0	20	2	5.0	100	
PARALLEL RESISTIVE CIRCUITS. PARALLEL RESISTIVE CIRCUITS. A3-27 DO 700 CALCULATE INDIVIDUAL BRANCH CURRENTS FOR \$50 23 23 27 13 22 0 20 28 29 100 PARALLEL RESISTIVE CIRCUITS. A3-28 DG 700 CALCULATE POWER DISSIPATION FOR PANALLEL 33 15 23 22 25 17 20 20 20 28 29 100 A3-28 DG 700 CALCULATE POWER POISSIPATION FOR PANALLEL 33 15 23 22 25 17 20 20 20 20 20 20 20 20 20 20 20 20 20		A3-26 DO YOU CALCULATE INDIVIDUAL V	20	3.0	30	15	25	27	50	20	33	•.	100	
FARALLEL MESISTIVE CIRCUITS. AL-ZE DO VOU RELALE POWER DISSIPATION FOR PANALLEL B1-01 DU YOU NEASURE RESISTANCE. B1-01 DU YOU NEASURE RESISTANCE. B1-02 DO YOU NEASURE RESISTANCE. B1-03 DO YOU NEASURE VOLTAGE. B1-03 DO YOU NEASURE VOLTAGE. B1-04 DO YOU NEASURE CURRENT. B1-05 DO YOU NEASURE CURRENT. B1-05 DO YOU NEASURE CURRENT. B1-06 DO YOU NEASURE CURRENT. B1-07 DO YOU NEASURE CURRENT. B1-08 DO YOU NEASURE CURRENT. B1-09 DO YOU NEASURE CURRENT. B1		PARALLEL RESISTIVE CIRCUITS. A3-27 DO YOU CALCULATE INDIVIDUAL B	80	52	23	27	12	22	0	02	2.8	2.	100	
BI-01 DU YOU MEASURE RESISTANCE. PZ PZ FZ FZ FZ FZ FZ FZ		FAMALLEL MESISTIVE CINCUITS. A5-28 DG YOU CALCULATE POWER DISSIPATION FOR	2	51	23	22	25	=	20	50	22	12	001	
BI-02 DG YOU REPAIR OWNMETERS. D		91-01 00	24	2.6	63	82	00-	:	100	100	=		100	
01-03 DG YOU WEASUME VOLTAGE. 100 92 90 87 100 86 100 100 87 88 100 100 80 80 100 100 80 80 100 100 80 80 100 100 80 80 100 100 80 80 100 100 80 80 100 100 80 80 80 100 100 80 80 80 100 100 80 80 80 100 100 80 80 80 100 100 80 80 80 100 100 80 80 80 100 100 80 80 100 80 80 100 80 80 100 80 80 80 80 80 80 80 80 80 80 80 80 8		81-02 00	0	•	s	1	0	•	0	7	•	•	0	
		81-03 DC YOU	001	2.	•	6.	00	2.	00	001	:	:	001	
81-04 DO YOU MEASURE CURRENT. 81-04 DO YOU WEASURE CURRENT. 81-04 DO YOU WEASURE CURRENT. 81-04 DO YOU WEASURE CURRENT. 81-05 DO YOU WEAD SCHEMATICS.		10 YOU YOU	0	•		•	0	^	0	0	9	•		911
61-07 DO YOU USE MULTIMETERS. 61-08 DO YOU USE MULTIMETERS. 61-08 DO YOU USECTLY USE A QUANTITY OF CHARGE CALLED A 0 15 5 7 0 5 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0		81-04 DO YOU	?	5	•	9	• •	' ~	20	?	•			TER US
COULDMB. 81-09 DO YOU READ SCHEMATICS.		81-07 DO YOU USE MULTIMETERS. 81-08 DO YOU OTRECTLY USE A QUANTITY OF CHARGE CALLED	~ 0	9 -	s s	0 ~	001	5 0	001	000	2 •	? 0	001	
		COULONS.	001	2		:	0	:	0	100	:	:	100	

ALTERNATING CURRENT REACTANCE INDUCTIVE INDUCTORS AND 000 80 80 88 888888 00 00 001 00 00 00 00 00 100 SPC 236 80 0 0 0 235 47 0 0 225 SPC 234 20 222535 = = 37.4 0000000000 0 0 0 233 00 2000 0 0 0 0 0 00 222 00 232 0.0 00000 0.0 2000000 a a 0 O 50 900 4 ٠ 2000 • 2-8 = 231 0 0 000 a 0 0 0 0 0 0 -SPC 230 25.5 GPSH4C PAGE 245 229 223 8 -= 20 5PC . 0 4 4 8 000 . . 300 SPC 227 7 0 62 5PC 11 -5 2 2 2 2 2 2 2 3 7778077 2 12 -17 TERM PEAK TO PEAK VOLTAGE. TERM MAVE LENGTM. REFER TO EDDY CURRENT LOSS IN INDUCTORS REFER TO THE GENERAL RULE THAT SERIES-PARALLEL CIRCUITS.

20 DG YOU USE OR PEFER TO THE GENERAL RULE THAT CURRENT SEY VOLTAGE IN AC INDUCTOR CIRCUITS.

42 YOU CALCULATE INDUCTIVE REACTANCE.

22 DO YOU USE OR REFER TO THE GENERAL RULE THAT OUTLIVE REACTANCE. 2-15 DO YOU USE OR REFER TO THE GENERAL RULE THAT THE INDUCTANCE OF A COIL IS DIRECTLY PROPORTIONAL TO THE PERMEABILITY OF THE CORE MATERIAL. SO TOU CALCULATE THE TOTAL INDUCTANCE FOR INDUCTANCE COLL IS DIRECTLY PROPORTIONAL TO THE CROSS TERM INSTANTAMEDUS VALUE. TO COPPER LOSS IN INDUCTORS. IS PROPORTIONAL TO THE SQUARE OF THE NUMBER OF DO YOU CALCULATE THE TOTAL INDUCTANCE FOR INDUCTORS IN PARALLEL.
3-19 DO 700 CALCULATE THE TOTAL INDUCTANCE FOR INDUCTORS CHORES, OR CHOKE COLLS IN YOUR PRESENT JOB. REFER TO THE TERM EFFECTIVE VOLTAGE HOUCTANCE OF A COIL IS INVERSELY PROPORTIONAL TO 175 YOU WORK WITH FOMER INDUCTORS.
YOU WORK WITH AUDIO FREQUENCY INDUCTORS.
YOU WORK WITH RADIO FREQUENCY INDUCTORS. INDUCTIVE REACTANCE. OR REPLACE INDUCTORS. PCT MBRS RESPONDING .YES. BY SELECTED GRPS TO THE OR REPER TO THE INSPECT INDUCTORS. INDUCTORS DY-15K PERCENT MEMBERS PERFORMING 30 8 c016. USE TANCE OF A 100 200 00 000 00 NOUC 62-14 97-14 42-15 00 5

PCT MBRS RESPONDING .YES' BY SELECTED GRPS

GPSH4C PAGE 5

とうことは 一般の 然れのことになっている

TASK GROUP SUMMARY PERFORMING

122 227 226 227 227 227 227 227 227 227 2					•	3		200		200		345	245	200	200		
CANACITORS IN TOWN PARK WITH CAPACITORS ON CIRCUITS CONTAINING D. 54 19 19 19 19 10 10 10 10				DY-15K	320	227	228	229	230	23.1	232	233	234	235	236		
CAMPIGNES THE FORM METER TO CAMPIGNES THE PROPERTY THE PRO	U		C1-01 Do 701	ITORS OR CIRCUITS	6.9	5.4	-	62	99	57	20	0.	7.8	16	100		
10. C.		:	CAPACITORS	.00B.	*	;	•	9	3	•		•	5	;	9		
95 C1-00 FOR TOWN CALCULATE CAPACITORS: 95 C1-05 FOR TOWN REPLACE CAPACITORS: 97 C1-05 FOR TOWN REPLACE CAPACITORS: 97 C1-05 FOR TOWN REPLACE CAPACITORS: 98 C1-05 FOR TOWN REPLACE CAPACITORS: 98 C1-05 FOR TOWN REPLACE CAPACITORS: 99 C1-05 FOR TOWN REPLACE CAPACITORS: 90 C1-05 FOR TOWN REPLACE CAPACITORS: 90 C1-05 FOR TOWN REPLACE CAPACITORS: 91 C1-05 FOR TOWN REPLACE CAPACITORS: 92 C1-05 FOR TOWN REPLACE CAPACITORS: 93 C1-05 FOR TOWN REPLACE CAPACITORS: 94 C1-05 FOR TOWN REPLACE CAPACITORS: 95 C1-05 FOR TOWN REPLACE CAPACITORS: 95 C1-05 FOR TOWN REPLACE CAPACITORS: 96 C1-05 FOR TOWN REPLACE CAPACITORS: 97 C1-05 FOR TOWN REPLACE CAPACITORS: 97 C1-05 FOR TOWN REPLACE CAPACITORS: 98 C1-05 FOR TOWN REPLACE CAPACITORS: 97 C1-05 FOR TOW	,			CLEAN CAPACITORS		2.0	21	24	00		0	200	33	35	3		-
	, ,		00	Aniust capacitoes	3		28	27		22			28	2 .	100		
## C1-05 00 100 # DISCRIME CARACITORS. ## DISCRIMENT. ## DISCRIMEN		1	00	TEST CAPACITORS.	63	29	6+		20	6	20	04	33	29	001		
10. CLORO DO TOU BEAN METER TO CARACITAKE. 10. CLORO DO TOU BEAN METER TO CARACITAKE. 10. CLORO DO TOU BEAN METER TO CARACITAKE. 10. CLORO DO TOU USE ON METER TO CARACITAKE. 10. CLORO DO TOU USE ON METER TO CARACITAKE. 10. CLORO DO TOU USE ON METER TO CARACITAKE. 10. CLORO DO TOU USE ON METER TO CARACITAKE CANACITAKE. 10. CLORO DO TOU USE ON METER TO CARACITAKE CANACITAKE. 10. CLORO TOU USE ON METER TO CARACITAKE CANACITAKE. 10. CLORO TOU USE ON METER TO CARACITAKE CANACITAKE TO TOU USE ON TOTAL TO TOU USE ON METER TO CARACITAKE CANACITAKE TO TOU USE ON TOTAL TO TO TOU USE ON TOTAL TO TOU USE ON TOTAL TO			00	DISCHARGE CAPACITORS.	75	42	:	47	96	:	•	9.0	;	7	001		
10 1 1 1 1 1 1 1 1 1	J		00	REHOVE OR REPLACE CA	6.7	*5	15	0.	95	•	9	0.9	:	4.7	0		
100 100			0	USE OR REFER TO DISTRIBUTED CAPACITANCE.	-1	15	15	91	4	-	10	0	•	•	0	3	-
10	J		A DIELECTR	SE OR REFER TO ORBITAL STRESS OF ELECTRONS	•	23	•	^	0	•	0	0	•	0	001	INCE	
103 CT-12 00 700 USE ON REFER TO CARACITIVE REACTANCE 104 CT-12 00 700 USE ON REFER TO CARACITIVE REACTANCE 105 CT-12 00 700 USE ON REFER TO CARACITIVE REACTANCE 106 CT-12 00 700 USE ON REFER TO CARACITIVE REACTANCE 107 CT-12 00 700 USE ON REFER TO CARACITIVE REACTANCE 108 CT-13 00 700 USE ON REFER TO CARACITIVE REACTANCE 109 CT-14 00 700 USE ON REFER TO CARACITIVE REACTANCE 100 CT-15 00 700 USE ON REFER TO CARACITIVE REACTANCE 100 CT-15 00 700 USE ON REFER TO CARACITIVE REACTANCE 100 CT-15 00 700 USE ON REFER TO CARACITIVE REACTANCE 100 CT-15 00 700 USE ON REFER TO CARACITIVE REACTANCE 100 CT-15 00 700 USE ON REFER TO CARACITIVE REACTANCE 100 CT-15 00 700 USE ON REFER TO CARACITIVE REACTANCE 100 CT-15 00 700 USE ON REFER TO THE GENERAL RULE TYAT 101 CT-22 00 TO USE ON REFER TO THE GENERAL RULE TYAT 101 CT-22 00 TO USE ON REFER TO THE GENERAL RULE TYAT 101 CT-22 00 TO USE ON REFER TO THE GENERAL RULE TYAT 101 CT-22 00 TO USE ON REFER TO THE GENERAL RULE TYAT 101 CT-22 00 TO USE ON REFER TO THE GENERAL RULE TYAT 102 CT-22 00 TO USE ON REFER TO THE GENERAL RULE TYAT 103 CT-22 00 TO USE ON REFER TO THE GENERAL RULE TYAT 104 CT-22 00 TO USE ON REFER TO THE GENERAL RULE TYAT 105 CT-22 00 TO USE ON REFER TO THE GENERAL RULE TYAT 106 CT-22 00 TO USE ON REFER TO THE GENERAL RULE TYAT 107 THE TYAT TO THE TYAT CAPACITORS 108 CT-22 00 TO USE ON REFER TO THE GENERAL RULE TYAT 109 CT-22 00 TO USE ON REFER TO THE GENERAL RULE TYAT CURRENT TO THE TYAT CAPACITORS 107 THE TYAT THE TYAT CAPACITANCE OF CAPACITORS 108 CT-22 00 TO USE ON REFER TO THE GENERAL RULE TYAT CURRENT TYAT 107 THE TYAT THE TYAT CAPACITANCE OF CAPACITORS 108 CT-22 00 TO USE ON REFER TO THE GENERAL RULE TYAT CURRENT TYAT THE TYAT TYAT THE TYAT TYAT TYAT TYAT TYAT TYAT TYAT TYA			C1-10 DO YOU	ON REFER TO FARADS. HICROFARADS. O	•	24	:	4.3	38	7	90	20	33	62	100	D	
100 (1-12 DO 700 USE OR REFER TO POLICIFIC CONSTANT 10. (1-12 DO 700 USE OR REFER TO POLICIFIC CONSTANT 10. (1-12 DO 700 USE OR REFER TO POLICIFIC CONSTANT 10. (1-12 DO 700 USE OR REFER TO POLICIFIC CONSTANT 10. (1-12 DO 700 USE OR REFER TO POLICIFIC COLOR COLOR 10. (1-12 DO 700 USE OR REFER TO CAPACITORS IN ACCREMISS 10. (1-13 DO 700 USE OR REFER TO CAPACITORS IN ACCREMISS 10. (1-14 DO 700 USE OR REFER TO CAPACITORS IN ACCREMISS 10. (1-15 DO 700 USE OR REFER TO CAPACITORS IN ACCREMISS 10. (1-15 DO 700 USE OR REFER TO CAPACITORS IN ACCREMISS 10. (1-15 DO 700 USE OR REFER TO CAPACITORS IN ACCREMISS 10. (1-15 DO 700 USE OR REFER TO CAPACITORS IN ACCREMISS 10. (1-15 DO 700 USE OR REFER TO CAPACITORS IN ACCREMISS 10. (1-15 DO 700 USE OR REFER TO CAPACITORS IN ACCREMISS 10. (1-15 DO 700 USE OR REFER TO CAPACITORS IN ACCREMISS 10. (1-15 DO 700 USE OR REFER TO CAPACITORS IN ACCREMISS 10. (1-15 DO 700 USE OR REFER TO CAPACITORS IN ACCREMISS 10. (1-15 DO 700 USE OR REFER TO CAPACITORS IN ACCREMISS 10. (1-15 DO 700 USE OR REFER TO THE GENERAL RULE THAT 10. (1-15 DO 700 USE OR REFER TO THE GENERAL RULE THAT CURRENT 10. (1-15 DO 700 USE OR REFER TO THE GENERAL RULE THAT CURRENT 10. (1-15 DO 700 USE OR REFER TO THE GENERAL RULE THAT CURRENT 10. (1-15 DO 700 USE OR REFER TO THE GENERAL RULE THAT CURRENT 10. (1-15 DO 700 USE OR REFER TO THE GENERAL RULE THAT CURRENT 10. (1-15 DO 700 USE OR REFER TO THE GENERAL RULE THAT CURRENT 10. (1-15 DO 700 USE OR REFER TO THE GENERAL RULE THAT CURRENT 10. (1-15 DO 700 USE OR REFER TO THE GENERAL RULE THAT CURRENT 10. (1-15 DO 700 USE OR REFER TO THE GENERAL RULE THAT CURRENT 10. (1-15 DO 700 USE OR REFER TO THE GENERAL RULE THAT CURRENT 10. (1-15 DO 700 USE OR REFER TO THE GENERAL RULE THAT CURRENT 10. (1-15 DO 700 USE OR REFER TO THE GENERAL RULE THAT CURRENT 10. (1-15 DO 700 USE OR REFER TO THE GENERAL RULE THAT CURRENT 10. (1-15 DO 700 USE OR THE THAT TO THAT CURRENT 10. (1-15 DO 700 USE OR THE TO THE GENERAL RULE THAT CURRENT 10. (1-15 DO 700 USE OR THE TO THE GENERAL RULE THAT CURRE		U	8	USE OR REFER TO CAPACIT	17	3		51	36	?		0,	•	35	100	KE KE	
100 C 1-15 100 VOU USE OR REFER TO CAPACITYCE RATING OF 56 46 31 31 31 27 30 40 39 35 100 C 1-15 100 VOU USE OR REFER TO CAPACITYCE COOK COLOR COL			C1-12 00 701	USE OR REFER TO DIELECTR	-	23	=	2	•	=	0	0	=	•	001	ΛE KS	
105 CI-18 DO TOU USE ON REFER TO CAPACITIVE REACTANCE			C1-13 00 701	USE OF REFER TO WORKING VOLTAGE RATING	95	•	31	3.1	3,1	27	30	0	3	35	8	OTI ITI	
10 C 10 D			CI-14 DO YOU	USE OR REFER TO CAPACITIVE	33	38	21	22	6	61	20	20	22	9	100	SVC	
100 C1-16 DO TOU WORK WITH CAPACITORS IN DC CIRCUITS 100 C1-16 DO TOU WORK WITH CAPACITORS IN DC CIRCUITS 100 C1-16 DO TOU WORK WITH CAPACITORS IN DON'T REMEMBER WHICH 100 C1-16 DO TOU WORK WITH CAPACITORS IN DON'T REMEMBER WHICH 101 C1-16 DO TOU WORK WITH CAPACITORS IN DON'T REMEMBER WHICH 101 C1-16 DO TOU WORK WITH CAPACITORS IN DON'T REMEMBER WHICH 101 C1-16 DO TOU WORK WITH CAPACITORS IN DON'T REMEMBER WHICH 101 C1-16 DO TOU WORK WITH CAPACITORS IN DON'T REMEMBER WHICH 101 C1-16 DO TOU WORK WITH CAPACITORS IN DON'T REMEMBER WHICH 101 C1-16 DO TOU WORK WITH CAPACITORS IN DON'T REMEMBER WHICH 101 C1-16 DO TOU WORK WITH CAPACITORS IN DON'T REMEMBER WHICH 101 C1-16 DO TOU WORK WITH CAPACITORS IN DON'T REMEMBER WHICH 101 C1-16 DO TOU WORK WITH CAPACITORS IN DON'T REMEMBER WHICH 101 C1-16 DO TOU WORK WITH CAPACITORS IN DON'T REMEMBER WHICH 101 C1-16 DO TOU WORK WITH CAPACITORS IN DON'T REMEMBER WHICH 101 C1-16 DO TOU WORK WITH CAPACITORS IN DON'T REMEMBER WHICH 101 C1-16 DO TOU WORK WITH CAPACITORS IN DON'T REMEMBER WHICH 101 C1-16 DO TOU WORK WITH CAPACITORS IN DON'T REMEMBER WHICH 101 C1-16 DO TOU WORK WITH CAPACITORS IN DON'T REMEMBER TO THE GENERAL RULE THAT CURRENT IN TOTAL CHART CURRENT IN TOTAL CHART CURRENT IN TOTAL CHART CHART CURRENT IN TOTAL CHART CURRENT IN TOTAL CHART CURRENT IN TOTAL CHART			101 00 VI-13	USE OR REFER TO CAPACITOR	52	23	3.	33	6	3.2	70	0	17	•	0	CAI	
100 C1-17 DO TOU WORK WITH CAPACITORS IN ACCIRCUITS 100 C1-18 DO TOU WORK WITH CAPACITORS IN CIRCUITS 101 C1-18 DO TOU WORK WITH CAPACITORS IN CIRCUITS WITH BOTH DC 101 C1-18 DO TOU WORK WITH CAPACITORS IN CIRCUITS WITH BOTH DC 101 C1-18 DO TOU WORK WITH CAPACITORS IN CIRCUITS 101 C1-20 DO TOU CACCULATE CAPACITACE FOR PARTICULAR 102 C1-21 DO TOU CACCULATE CAPACITACE FOR PARTICULAR 103 C1-22 DO TOU USE OR REFER TO THE GENERAL RULE THAT 104 C1-21 DO TOU USE OR REFER TO THE GENERAL RULE THAT 105 C1-22 DO TOU USE OR REFER TO THE GENERAL RULE THAT 106 C1-22 DO TOU USE OR REFER TO THE GENERAL RULE THAT 107 C1-22 DO TOU USE OR REFER TO THE GENERAL RULE THAT 108 C1-22 DO TOU USE OR REFER TO THE GENERAL RULE THAT 108 C1-22 DO TOU USE OR REFER TO THE GENERAL RULE THAT CURRENT 108 C1-23 DO TOU CALCULATE THE TOTAL CAPACITANCE OF CAPACITORS 109 C1-29 DO TOU USE OR REFER TO THE GENERAL RULE THAT CURRENT 108 C1-29 DO TOU USE OR REFER TO THE GENERAL RULE THAT CURRENT 109 C1-29 DO TOU USE OR REFER TO THE GENERAL RULE THAT CURRENT 109 C1-29 DO TOU USE OR REFER TO THE GENERAL RULE THAT CURRENT 109 C1-29 DO TOU USE OR REFER TO THE GENERAL RULE THAT CURRENT 109 C1-29 DO TOU USE OR REFER TO THE GENERAL RULE THAT CURRENT 109 C1-29 DO TOU USE OR REFER TO THE GENERAL RULE THAT CURRENT 109 C1-29 DO TOU USE OR REFER TO THE GENERAL RULE THAT CURRENT 109 C1-29 DO TOU USE OR REFER TO THE GENERAL RULE THAT CURRENT 109 C1-29 DO TOU USE OR REFER TO THE GENERAL RULE THAT CURRENT 109 C1-29 DO TOU USE OR REFER TO THE GENERAL RULE THAT CURRENT 109 C1-29 DO TOU USE OR REFER TO THE GENERAL RULE THAT 109 C1-29 DO TOU USE OR REFER TO THE GENERAL RULE THAT 109 C1-29 DO TOU USE OR REFER TO THE GENERAL RULE THAT 109 C1-29 DO TOU USE OR REFER TO THE GENERAL RULE THAT 109 C1-29 DO TOU CALCULAR CAPACITURE 109 C1-20 TOU CALCULAR CAPACITURE			00	WORK WITH CAPACITORS IN DC	75	95	• •	•		62	70	0	20	43	001	1	
10 C1-19 DO TOU WORK WITH CAPACITORS IN CIRCUITS WITH BOTH DC				WORK WITH CAPACITORS IN AC CIRCUITS	6	62	•	1,	63	20	70	0,9	26	53	100		
10 CI-19 00 TOU WORK WITH CAPACITORS IN DON'T REMEMBER WHICH 6 23 7 9 1 1 5 20 0 6 6 6 6 6 6 6 6 6 6 6 6 6 6 6 6 6				MORK WITH CAPACITORS IN CIRCUITS WITH BOTH	67	7	57	28	26	5	20	0	*	35	001		
			AND AC	2		23	1		1.	5	30	0			0		-
11 C -20 DO YOU CALCULATE CAPACITANCE FOR PARTICULAR 12 C -21 DO YOU USE OR RELEATE 12 C -21 DO YOU USE OR RELEATE 12 C -21 DO YOU USE OR RELEATE 13 C -22 DO YOU USE OR RELEATE 14 C -22 DO YOU USE OR REFER TO THE GENERAL RULE THAT 15 C -22 DO YOU USE OR REFER TO THE GENERAL RULE THAT 16 C -22 DO YOU USE OR REFER TO THE GENERAL RULE THAT 17 C -23 DO YOU CALCULATE THE TOTAL CAPACITANCE OF CAPACITORS 25 15 11 13 6 11 0 20 17 12 19 19 19 19 19 19 19 19 19 19 19 19 19			CIRCUITS			:					,			,			
C		J	C1-20 00 70L	CAPACITANCE		•	1	•	6		0	0	=	•	001		1
			CAPACITORS	TO THE CENTRAL				•		d			1:		001	1	
DIECETRIC CONSTANT 113 C1-22 DO TOU USE OF REFER TO THE GENERAL RULE THAT CAPCITAME OF A CARCITOR IS INVERSELY PROPORTIONAL TO CAPCITAME OF A CARCITOR IS INVERSELY PROPORTIONAL TO THE DIELECTRIC THICKNESS 114 C1-23 DO TOU CALCULATE THE TOTAL CAPACITANCE OF CAPACITORS 125 C1-24 DO TOU CALCULATE THE TOTAL CAPACITANCE OF CAPACITORS 126 C1-24 DO TOU CALCULATE THE TOTAL CAPACITANCE OF CAPACITORS 127 C1-24 DO TOU CALCULATE THE TOTAL CAPACITANCE OF CAPACITORS 128 C1-25 DO TOU CALCULATE THE TOTAL CAPACITANCE OF CAPACITORS 128 C1-25 DO TOU USE OF REFER TO THE GENERAL RULE THAT CURRENT 128 C1-25 DO TOU USE OF REFER TO THE GENERAL RULE THAT CURRENT 128 C1-27 DO TOU USE OF REFER TO THE GENERAL RULE THAT CURRENT 129 C1-27 DO TOU USE OF REFER TO THE GENERAL RULE THAT CURRENT 129 C1-27 DO TOU USE OF REFER TO THE GENERAL RULE THAT CURRENT 129 C1-27 DO TOU USE OF REFER TO THE GENERAL RULE THAT CURRENT 129 C1-27 DO TOU USE OF REFER TO THE GENERAL RULE THAT 129 C1-27 DO TOU CALCULATE CAPACITIVE REACTANCE 120 C1-29 DO TOU CALCULATE CAPACITIVE REACTANCE 170 DO TOU CALCULATE CAPACITIVE REACTANCE 170 DO TOU CALCULATE CAPACITIVE REACTANCE 170 DO TOU CALCULATE CAPACITIVE REACTANCE			CAPACITANCE	R IS DIRECTLY PROPORTIONAL TO	•	•		•	D	•	0	•	:	•	3		
113 C1-22 DO YOU USE OF REFER TO THE GENERAL RULE THAT CAFACITANCE OF A CAFACITOR IS INVERSELY PROPORTIONAL TO THE OBLECTROIC FULL OF A CAFACITANCE OF CAFACITORS			DIELECTRIC					1						13			
THE DIELECTRIC THICKNESS 114 C1-23 DO 700 CALCULATE THE TOTAL CAPACITANCE OF CAPACITORS 115 C1-24 DO 700 CALCULATE THE TOTAL CAPACITANCE OF CAPACITORS 116 C1-27 DO 700 CALCULATE THE TOTAL CAPACITANCE OF CAPACITORS 116 C1-28 DO 700 CALCULATE THE TOTAL CAPACITANCE OF CAPACITORS 117 C1-28 DO 700 USE OR REFER TO THE GENERAL RULE THAT CURRENT 118 C1-28 DO 700 USE OR REFER TO THE GENERAL RULE THAT CURRENT 119 C1-28 DO 700 USE OR REFER TO THE GENERAL RULE THAT CURRENT 119 C1-28 DO 700 USE OR REFER TO THE GENERAL RULE THAT CURRENT 119 C1-28 DO 700 USE OR REFER TO THE GENERAL RULE THAT CURRENT 119 C1-28 DO 700 USE OR REFER TO THE GENERAL RULE THAT 119 C1-28 DO 700 USE OR REFER TO THE GENERAL RULE THAT 119 C1-28 DO 700 USE OR REFER TO THE GENERAL TO 119 C1-29 DO 700 USE OR REFER TO THE GENERAL TO 110 C1-29 DO 700 USE OR REFER TO THE GENERAL TO 110 C1-29 DO 700 USE OR REFER TO THE GENERAL TO 110 C1-29 DO 700 USE OR REFER TO THE GENERAL TO 110 C1-29 DO 700 USE OR REFER TO THE GENERAL TO 110 C1-29 DO 700 USE OR REFER TO THE GENERAL TO 110 C1-29 DO 700 USE OR REFER TO THE GENERAL TO 110 C1-29 DO 700 USE OR REFER TO THE GENERAL TO 110 C1-29 DO 700 USE OR REFER TO THE GENERAL TO 110 C1-29 DO 700 USE OR REFER TO THE GENERAL TO 110 C1-29 DO 700 USE OR REFER TO THE GENERAL TO 110 C1-29 DO 700 USE OR REFER TO THE GENERAL TO 110 C1-29 DO 700 USE OR THE CAPACITIVE REACTANCE 110 C1-29 DO 700 TOU CALCULATE CAPACITIVE THAT 110 C1-20 DO 700 TOU CALCULATE CAPACITIVE THAT 110 C1-20 TOU CALCULATE CAPACITIVE THAT 110 C1-20 TOU CAPACITIVE THA			CAPACITANCE	SENERAL RULE THAT	2	•	1	•	0	•	0	0	=	•	00		
IN SERIES			THE DIELECT	CAPACITANCE OF	25		=	13	•	=	c	20	1.1	12	100		
IN PARALLEL IN PARALLEL IN PARALLEL IN PARALLEL IN STATES—OF CALCULATE THE TOTAL CAPACITANCE OF CAPACITORS IN STATES—OF TOU CALCULATE CAPACITANCE OF CAPACITORS IN STATES—OF TOU USE OR REFER TO THE GENERAL RULE THAT CURRENT IS C1-27 OG TOU USE OR REFER TO THE GENERAL RULE THAT CURRENT LEADS VOLTAGE IN AC CAPACITOR CIRCUITS II C1-27 OG TOU USE OR REFER TO THE GENERAL RULE THAT CAPACITIVE REACTANCE IS INVERSELY PROPORTIONAL TO FREQUENCY REQUENCY IZ O TOU CALCULATE CAPACITIVE REACTANCE IZ O TOU CALCULATE CAPACITIVE REACTANCE		9	14 SERIES	CAPACITANCE OF	36	5	=	-	1	-		06	1	10	001		-
116 C1-25 DO YOU CALCULATE THE TOTAL CAPACITANCE OF CAPACITORS 25 15 11 13 6 11 0 20 17 12 18 18 6 12 0 20 17 12 18 18 18 18 18 18 18 18 18 18 18 18 18			IN PARALLEL		:			:	•	:	•	:		:	:		
117 C1-24 DO YOU USE OR REFER TO THE GENERAL RULE THAT CURRENT 25 23 16 18 13 19 10 0 11 6 DOES NOT FLOW THROUGH CAPACITORS, IT ONLY APPEARS TO BO SO 118 C1-27 DO TOU USE OR REFER TO THE GENERAL RULE THAT CURRENT 17 23 15 16 13 11 20 0 11 6 128 C1-27 DO TOU USE OR REFER TO THE GENERAL RULE THAT 129 C1-28 DO TOU USE OR REFER TO THE GENERAL RULE THAT 120 C1-29 DO TOU CALCULATE CAPACITIVE REACTAMCE 120 C1-29 DO TOU CALCULATE CAPACITIVE REACTAMCE 120 C1-29 DO TOU CALCULATE CAPACITIVE REACTAMCE	U	10	C1-25 DO 701	CAPACITANCE OF	\$2	-51	=	2	٠	=	0	50	1.3	12	001		
DOES NOT FLOW THROUGH CAPACITORS, IT ONLY APPEARS TO DO SO 116 C1-27 0G TOU USE OF REFER TO THE GENERAL RULE THAT CURRENT 117 C1-28 0G TOU USE OF REFER TO THE GENERAL RULE THAT CAPACITIVE HEACTANCE IS INVERSELY PROPORTIONAL TO FREQUENCY 120 C1-27 DO TOU CALCULATE CAPACITIVE REACTANCE 120 C1-27 DO TOU CALCULATE CAPACITIVE REACTANCE		117 6	11-24 DO YOU	GENERAL RULE THAT CUR	52	23	-		13		10	0	=	•	001		
			DOES NOT FL	S. IT ONLY APPEARS TO		1		-	1	1			1	0			
CI-28 DO TOU USE OR REFER TO THE GEMERAL RULE THAT CAPACITIVE REACTANCE IS INVERSELY PROPORTIONAL TO FREQUENCY CI-27 DO TOU CALCULATE CAPACITIVE REACTANCE 18 10 13 0 11 0 0 22 18			LEADS VOLTA	RCUITS	-	57	_	•	2	=	0,	0	=	•	100		
FREQUENCY FREQUENCY 120 C1-29 DO 700 CALCULATE CAPACITIVE REACTAMEE 17 8 10 13 0 11 0 0 22 18			C1-28 00 70	SENERAL RULE THA	13	•	15		13	=	30	0	=	•	100		
120 C1-29 DO 700 CALCULATE CAPACITIVE REACTAMEE 17 8 10 13 0 11 0 0 22 18			FREGUENCY	- TENOLONIA	-		And the Panel Annual Section	-	-	-	-	The state of the state of	-	-		-	
			11-29 DO TOL		11	-	0	=	0	=	0	0	22	-	100		

,103

PCT MBRS RESPONDING .TES' BY SELECTED GRPS

GPSH4C PAGE

TASK GROUP SUMMARY PERCENT MEMBERS PERFORMING

TRANSFORMERS 5PC 388888 88 0 00 98 001 100 8 88880 8 00 00 00 235 ~ 222 05 -= 0 23 0 00 0 0 20 0 a do 0 0 9 20 30 20 231 35 -22 ? 35 0 1273 d 00 0 0 -50 : 25 3 229 ~ = 0 • 222 22 2 200000 -0 22 40 7 20 -3 5 227 0 2 0 79 77 -= . 33 33 5 5 5 5 5 - 1 -17 20 28 CURRENT OR VOLTAGE RATIOS
C2-12 DO YOU REFER TO REFLECTED IMPEDANCE WHEN WORKING WITH MHEN MORKING WITH TRANSFORMERS CZ-11 DO YOU CALCULATE TURNS RATIOS FOR TRANSFORMERS USING 10 DO YOU WORK WITH ROTOR—STATOR (VARIABLE) CAPACITORS
DO YOU WORK WITH COMPRESSION (TRIMMER) CAPACITORS
DO YOU WORK WITH ELECTROLYTIC (FIXED) CAPACITORS
DO YOU WORK WITH PAPER (FIXED) CAPACITORS
DO YOU WORK WITH MICA (FIXED) CAPACITORS
DO YOU WORK WITH CERAMIC (FIXED) CAPACITORS
DO YOU WORK WITH CERAMIC (FIXED) CAPACITORS
DO YOU WORK WITH CERAMIC (FIXED) CAPACITORS C2-05 DO YOU TROUBLESHOOT TRANSFORMERS C2-06 DO YOU REHOVE OR REPLACE COMPLETE TRANSFORMERS C2-07 DO YOU REHOVE OR REPLACE TRANSFORMER PARTS, SUCH AS DO YOU USE THE SYMBOL FOR MUTUAL INDUCTANCE, H DO YOU REFER TO OR USE THE COEFFICIENT OF COUPLING C2-08 DO YOU MAKE A DISTINCTION BETWEEN MUTUAL INDUCTION C2-21 DO YOU CHECK TRANSFORMERS FOR SHORTED WINDINGS BY MEASURING DUTPUT VOLTAGES
C2-22 DO YOU MEASURE RESISTANCE OF TRANSFORMER WINDINGS
DETERMINE WHETHER A TRANSFORMER HAS A STEP-UP OR STEP-DOWN TURNS RATIO C2-23 DO YOU ME_SURE GUTPUT VOLTAGE OF TRANSFORMERS TO DETERMINE WHETHER A TRANSFORMER HAS A STEP-UP OR STEP-8 MEASURING RESISTANCE C 147 C2-20 DO YOU CHECK TRANSFORMERS FOR SHORTED WINDINGS C 146 C2-19 DO YOU CHECK TRANSFORMERS FOR OPEN WINDINGS BY C2-19 DO YOU WORK WITH POWER TRANSFORMERS
C2-15 DO YOU WORK WITH FOWER TRANSFORMERS
C2-16 DO YOU WORK WITH AUDIO TRANSFORMERS
C2-17 DO YOU WORK WITH RADIO FREQUENCY TRANSFORMERS
C2-18 DO YOU WORK WITH DON'T REVENBER WHAT TYPE OF RORE MILL TRANSFORMERS IN YOUR PRESENT INSPECT TRANSFORMERS MORK WITH DON'T RENEMBER WHICH TYPE OF C2-13 DO TOU CALCULATE IMPEDANCE INTERACTIONS FOR ADJUST TRANSFORMERS DY-15K AND MUTUAL INDUCTANCE (M) TOU WORK WITH A MEASURING RESISTANCE HE PRIMARY WINDING PRANSFORMERS TRANSFORMERS 400 00 CI-34 CI-33 C2-02 C3-03 138 C 139 135 140 145 110 4 4 225 25 124 136 137 051 3

100

53

3

9

0

35

35

-

.

3

75

TO BASIC TRANSFORMER SCHEMATIC SYMBOLS

C2-24 DO YOU REPER FOR TRANSFORMERS

GPSH4C PAGE 7

TASK GROUP SUMMARY PERCENT MEMBERS PERFORMING

	0y-15x	226 2	227 23	228 229	230	231	5 Pc	233	234	235	236	
16.2		.,	**		;		•		:	. 4	001	
:	SYMBOLS FOR TRANSFORMERS	-					7					
C 153		7.5	, 29	**	*	35	0,	50	;	-	100	
	TARANCE CA-27 DO YOU REFER TO CENTER TAN SCHEMATIC SYSTEM FOR	7.5	, ,	44	*	5	•	30	20	. 7	001	
							0					
155	C2-28 DO YOU REFER TO AIR CORE SCHEMATIC SYMBOLS FOR	33	96	31 33	3 25	2.4	30	0	22	•	100	
4	TRANSFORMERS	:	•				,	5	:	•		
130	2100000						9				100	
151 3	C2-30 DO YOU REFER TO COMBINATIONS OF THE ABOVE SCHEMATIC	80	5.4	38 33	9 50	7	0.	02	82	5.4	100	
	SYMBOLS FOR TRANSFORMERS				•	3		•		•		
2	SECONDARY AND PRIMARY VOLTAGES OF TRANSFORMERS USING	,		17 67		7	0,	2	;		200	
159	C2-32 DO YOU DETERMINE OR REFER TO THE TYPE OF CORE IN	33	- - -	- 91	8 13	•	90	0	-	12	100	
140	C2-33 DO YOU REFER TO OR USE THE GENERAL RULE THAT THE	33	3.1	1	3	-	-	0	11	1.2	100	
2	EGUAL TO THE VOLT			•		:		,		:		
191 3	OR REFER TO STEP-UP OR STEP-DOWN RATIOS	45	31	25 27	61	•	30	0	22	•	100	
7 1 0 7	CALLS GO TOU CALCULATE VOLTAGE MATIOS FOR IMANSFORMERS	57	•	80	•	n	01	0	-	7	200	
163	C2-36 DO YOU CALCULATE CURRENT RATIOS FOR TRANSFORMERS	17	15	7	7 6	7	0	2	11	1.2	100	
1	USING TURNS RATIOS	-										
•	PIEST COLS TOUR CON TAVOLY, AND TAVAS DEALING WITH TAKE	0	7	•	06	32	0	2	20	:	2	
165	FORME	6.7	•	30 2	38	27	30	0.	3.	35	100	
:	C2-39 DO TOU CLEAM OR LUBRICATE THREE PHASE TRANSFORMERS	42		10	•	=	0	0	77	5.0	0	-
167	C2-40 DO YOU ADJUST THREE PHASE TRANSI	•	- s		-	60 1	20	0	= :	•	001	
9		200		33 31	7	7,	a	•	33	35	0	
•	TRANSCORIES				•	12	06	•	;		0	
170	v	90	•	0	0	0	0	0	0	0	0	
1	NOINES	1		١	1			1	1	1		
122	CANON DO YOU USE ON REFER TO TELEGRAPH MARKET	3		34 96	2 2 2	25	200	200	22		200	
173	C3-03 DO TOU USE OF REFER TO RETENTIVIT		23	60		2	0	0	=		100	
										i		
174	C3-04 DO YOU USE OF PEPER TO PELUCTANCE OF MAGNETIC	11	51	_	0	•	CI	0	=	•	100	
175	C3-05 DO YOU USE OR REFER TO PERMEABILITY OF MAGNETIC	1.1	23	1	0	5	0	0	=	•	100 MA	MAGNETISM
		-						,				
17	CONTROL OF THE SERVICE OF RESERVED ARENETIC CINES OF FORCE OF			20.	0 :	0 %	20	0 0		• •	200	
							1					
. 7						•		•				

TASK GROUP SUMMARY PERCENT NEMBERS PERFORMING

d 100 RCL CIRCUITS 288 100 100 100 001 001 001 001 100 001 00 00 100 100 001 00 100 • 35 12 7 12 . 17 24 54 7 . 7 = 39 = = 17 17 22 233 0 0 0 0 5PC 232 0 2000 0 00 0 20 20 0 30 20 20 0 0 20 20 30 20 20 20 SPC 231 s 1 9 0 0 s v • 230 230 95 7 2 • 6 • ----7 2 2 3.0 38 2 25 29 2 2 = 50 2 2 27 5.0 20 27 č 15 5 30 = 20 --0 9 30 25 0 20 28 0 9 23 23 5 5 33 0 0 1.1 17 17 -52 25 33 17 52 17 C 181 C3-11 DO YOU USE OR REFER TO FLUX DENSITY
C 182 C3-12 DO YOU USE OR REFER TO THE GENERAL RULE THAT FOR
MAGNETIC POLES, LIKE POLES REPEL AND UNLIKE POLES ATTRACT
C 183 C3-13 DO YOU USE THE LEFT HAND THUMB RULE TO FIND THE
C 184 C3-14 DO YOU USE THE LEFT HAND THUMB RULE TO FIND THE MORTH WORKING MITH RCL CIRCUITS D 199 DI-15 DO YOU USE OR REPER TO SELECTIVITY WHEN WORKING WITH D 184 DI-02 DO YOU USE OR REFER TO VECTORS WHEN WORKING WITH RCL D 190 DI-04 DC YOU USE OR REFER TO TANGENT WHEN WORKING WITH RCL D 200 DI-14 DO YOU USE OR REFER TO RESONANT FREQUENCY WHEN MCRKING MITH RCL CIRCUITS
D 201 DI-17 DO YOU USE OR REFER TO HALF POMER POINTS WHEN MORKING WITH RCL CIRCUITS
D 202 DI-18 DO YOU USE OR REFER TO BANDFASS REGION WHEN WORKING DI-08 DO YOU USE OR REFER TO TRUE POWER (PT) WHEN WORKING D 189 DI-05 DO YOU USE OF REFER TO COSINE WHEN WORKING WITH RCL MORKING MITH RCL CIRCUITS D 198 D1-14 DO YOU USE OR REFER TO BANDWIDTH WHEN WORKING WITH MITH RCL CIRCUITS
D 203 01-19 DO YOU USE OR REFER TO CIRCUIT O WHEN MORKING WITH D 191 DI-07 DO YOU USE OF REFER TO WATTS WHEN WORKING WITH RCL TO DOMAIN THEORY OF MAGNETISM TO MAGNETIC INDUCTION D 188 DI-04 DO YOU USE OF REFER TO SINE WHEN WORKING WITH RCL D 194 DI-10 DO YOU USE OR REFER TO AVERAGE POWER (PAVE) WHEN CIRCUITS D 187 DI-03 DO YOU USE OR REFER TO PYTHAGOREAN THEOREM WHEN MORKING MITH RCL CIRCUITS DO YOU USE OR REFER TO MAXINUM POWER (PM) WHEN WITH RCL CIRCUITS 01-13 DO YOU USE OR REFER TO RESONANT CIRCUITS WHEN DOLE OF A CURRENT CARRYING COIL O 185 DI-01 DO YOU WORK WITH RC. LR. RCL CIRCUITS IN YOUR DY-75K WORKING WITH RCL CIRCUITS ACL CIRCUITS C3-10 DO YOU USE O C3-10 DO YOU USE O C3-11 DO YOU USE O RCL CIRCUITS ACL CIRCUITS RCL CIRCUITS CIRCUITS CIRCUITS CIRCUITS CIRCUITS 0 143 01-04 11-10 561 0 0 196 01-12 C 181 180 261 0 0 197

GPSH4C PAGE

GPSH4C PAGE

TASK GROUP SUMMARY

20 20 20 20 20 20 20 20	DY-TSK	a ferreint for the second seco	2 PC	227 2	228	229	230	231	5PC 232	233	234	235 235	2 3 6	
	DI-20 DO YOU USE OR REFER TO TANK CIRCUITS WHEN	PRING	33	3.8	25	42	25	91	30	0	22		001	
200 1-23 00 TOU CALCULATE TOTAL IMPEDANCE FOR CAPACITIVE	WITH RCL CIRCUITS WITH RCL CIRCUITS WITH RCL CIRCUITS WE SERVING VALUES OF TRIGONOMETRIC WE SERVING THE SERVING VALUES OF TRIGONOMETRIC	CTIONS	0	90	-	•	0	0	0	0	=	•	100	
200 FOLKARD FOR CRECULATE PRASE ANGLES BETWEEN IMPEDANCE AND 0 0 2 2 0 0 0 11 0	DI-22 DO YOU DRAW VOLTAGE, CURRENT, OR IMPEDANCE	FCTOR	0	80	64	2	0	0	a	0	•	0	001	
200 CIRCULTS DIVOU CALCULATE PHASE ANGLES BETWEEN IMPEDANCE AND 0 6 2 2 0 0 0 0 0 11 4 4 18517ARE IN CARCUTATE PHASE ANGLES BETWEEN IMPEDANCE AND 0 15 5 4 4 5 3 10 0 11 4 6 10 12 4 5 10 12 4 5 10 12 4 10 12	DIAGRAMS FOR CIRCUITS DI-23 DO YOU CALCULATE TOTAL IMPEDANCE FOR CAPAC	1145	00	15	-		a	1	a	0	11	12	001	
### ##################################	CIRCUITS DI-24 DO YOU CALCULATE PHASE ANGLES BETWEEN		0	•	~	~	a	٥	a	0	=	•	001	
210 CIRCULATE IMPEDANCE ANGLES FOR SERIES RCL CIRCULATO CACCULATE IMPEDANCE ANGLES FOR SERIES RCL CIRCULATO CACCULATE IMPEDANCE PROFILES RCL CIRCULATO CACCULATE TRUE POWER (PA) FOR SERIES RCL CIRCULATO CACCULATE TRUE POWER (PA) FOR SERIES RCL CIRCULATO CACCULATE TRUE POWER (PA) FOR SERIES RCL CIRCULATE CONTROL CACCULATE TRUE POWER (PA) FOR SERIES RCL CIRCULATE CONTROL CACCULATE TOTAL CURRENT FOR PARALLEL RCL CIRCULATE TOTAL IMPEDANCE ANGLES FOR PARALLEL RCL CIRCULATE TOTAL IMPEDANCE FOR PARALLEL RCL CONTROL TOTAL COLULATE TOTAL IMPEDANCE FOR PARALLEL RCL CONTROL TOTAL	RESISTANCE IN CAPACITIVE CINCUITS 01-25 DO YOU CALCULATE TOTAL IMPEDANCE FOR	73 ₈	0	15		•	•	•	9	0	=	•	001	
21 01-27 DO TOU CALCULATE APPARENT POWER (PA) FOR SERIES RCL. 22 01-28 DO TOU CALCULATE TANGE POWER (PA) FOR SERIES RCL. 23 01-28 DO TOU CALCULATE TANGE POWER (PA) FOR SERIES RCL. 23 01-27 DO TOU CALCULATE TANGE POWER (PA) FOR PARALLEL RCL. 24 01-20 DO TOU CALCULATE TANGE POWER FACTORS SERIES RCL. 25 01-21 DO TOU CALCULATE TOTAL CWRENT FOR PARALLEL RCL. 26 01-21 DO TOU CALCULATE TOTAL IMPEDANCE POR PARALLEL RCL. 27 01-20 DO TOU CALCULATE TOTAL IMPEDANCE POR PARALLEL RCL. 28 01-21 DO TOU CALCULATE TOTAL IMPEDANCE POR PARALLEL RCL. 29 01-20 DO TOU CALCULATE TOTAL IMPEDANCE POR PARALLEL RCL. 20 01-21 DO TOU CALCULATE TOTAL IMPEDANCE POR PARALLEL RCL. 20 01-21 DO TOU CALCULATE TOTAL IMPEDANCE POR PARALLEL RCL. 21 01-22 DO TOU CALCULATE TOTAL IMPEDANCE POR PARALLEL RCL. 21 01-22 DO TOU CALCULATE TOTAL IMPEDANCE POR PARALLEL RCL. 21 01-22 DO TOU CALCULATE TOTAL IMPEDANCE POR PARALLEL RCL. 22 01-23 DO TOU CALCULATE TOTAL IMPEDANCE POR PARALLEL RCL. 23 01-24 DO TOU CALCULATE TOTAL IMPEDANCE POR PARALLEL RCL. 24 01-35 DO TOU CALCULATE TOTAL IMPEDANCE POR PARALLEL RCL. 25 01-35 DO TOU CALCULATE TOTAL IMPEDANCE POR PARALLEL RCL. 25 01-35 DO TOU CALCULATE TOTAL IMPEDANCE POR PARALLEL RCL. 26 01-35 DO TOU CALCULATE TOTAL IMPEDANCE POR PARALLEL RCL. 27 01-35 DO TOU CALCULATE RESONANT FRESONANT PRESONANT PRESONANT FRESONANT FRES	CIRCUITS DI-24 DO YOU CALCULATE IMPEDANCE ANGLES FOR	S RCL	0	15	~	~	a	0	a	٥	=	•	001	
212 C176 U175 213 01-28 00 TOU CALCULATE TRUE POWER 1071 FOR SERIES REL C176 U175 213 01-79 00 TOU CALCULATE FRUE FACTORS (PFT FOR SERIES REL C176 U175 214 01-79 00 TOU CALCULATE FORER FACTORS (PFT FOR SERIES REL C176 U175 215 01-19 00 TOU CALCULATE FORER FACTORS (PFT FOR SERIES REL C176 U175 216 01-10 TOU CALCULATE FORER FACTORS (PFT FOR SERIES REL C176 U175 216 01-10 TOU CALCULATE FORER FACTORS (PFT FOR SERIES REL C176 U175 216 01-10 TOU CALCULATE FORER FACTORS (PARALLEL REL C176 U175 216 01-10 TOU CALCULATE FORER FACTORS (PARALLEL REL C176 U175 217 01-10 TOU CALCULATE FORER FACTORS (PARALLEL REL C176 U175 218 01-10 TOU CALCULATE FORER FACTORS (PARALLEL REL C176 U175 218 01-10 TOU CALCULATE FORER FACTORS (PARALLEL REL C176 U175 218 01-10 TOU CALCULATE FORER FACTORS (PARALLEL REL C176 U175 218 01-10 TOU CALCULATE FORER FACTORS (PARALLEL REL C176 U175 218 01-10 TOU CALCULATE FORER FACTORS (PARALLEL REL C176 U175 218 01-10 TOU CALCULATE FORER FACTORS (PARALLEL REL C176 U175 218 01-10 TOU CALCULATE FORER FACTORS (PARALLEL REL C176 U175 218 01-10 TOU CALCULATE FORER FACTORS (PARALLEL REL C176 U175 218 01-10 TOU CALCULATE FORER FACTORS (PARALLEL REL C176 U175 218 01-10 TOU CALCULATE FORER FACTORS (PARALLEL REL C176 U175 218 01-10 TOU CALCULATE FORER FACTORS (PARALLEL REL C176 U175 218 01-10 TOU CALCULATE FORER FACTORS (PARALLEL REL C176 U175 218 01-10 TOU CALCULATE FORER FACTORS (PARALLEL REL C176 U175 218 01-10 TOU CALCULATE FORER FACTORS (PARALLEL REL C176 U175 218 01-10 TOU CALCULATE FORER FACTORS (PARALLEL TATALLEL TATALLEL REL C176 U175 218 01-10 TOU CALCULATE FORER FACTORS (PARALLEL REL C176 U175 218 01-10 TOU CALCULATE FORER FACTORS (PARALLEL REL C176 U175 218 01-10 TOU CALCULATE FORER FACTORS (PARALLEL REL C176 U175 218 01-10 TOU CALCULATE FORER FACTORS (PARALLEL REL C176 U175 218 01-10 TOU CALCULATE FACTORS (PARALLEL TATALLEL	CIRCUITS DI-27 DO YOU CALCULATE APPARENT POWER (PA) FOR		0	15	•	7	•	0	10	٥	•	•	0	
CIRCUITS 219 07-27 00 YOU CALCULATE POWER FACTORS (PF) FOR SERIES MCL 217 01-20 00 YOU CALCULATE POWER FACTORS (PF) FOR SERIES MCL 218 01-20 00 YOU CALCULATE TOTAL CUREENT FOR PARALLEL RCL 219 01-20 00 YOU CALCULATE TOTAL IMPEDANCE FOR PARALLEL RCL 219 01-20 00 YOU CALCULATE TOTAL IMPEDANCE FOR PARALLEL RCL 219 01-20 00 YOU CALCULATE TOTAL IMPEDANCE FOR PARALLEL RCL 219 01-20 00 YOU CALCULATE TOTAL IMPEDANCE FOR PARALLEL RCL 220 10-20 00 YOU CALCULATE TOTAL IMPEDANCE FOR PARALLEL RCL 221 01-20 00 YOU CALCULATE TOTAL IMPEDANCE FOR PARALLEL RCL 222 01-20 YOU CALCULATE TOTAL IMPEDANCE FOR PARALLEL RCL 223 01-20 YOU CALCULATE TOTAL IMPEDANCE FOR PARALLEL RCL 224 01-20 YOU CALCULATE TOTAL IMPEDANCE FOR PARALLEL RCL 225 01-20 YOU CHECK LANDYTONS USING SUBSTITUTION 226 01-20 YOU CHECK LINDYTONS USING SUBSTITUTION 227 01-20 YOU CHECK LINDYTONS USING SUBSTITUTION 228 01-20 YOU CHECK LINDYTONS USING SUBSTITUTION 227 01-20 YOU CHECK LINDYTONS USING SUBSTITUTION 228 01-20 YOU USE OR REFER TO THE GENERAL RULE THAT LINE 228 01-20 YOU USE OR REFER TO THE GENERAL RULE THAT LINE 229 01-20 YOU USE OR REFER TO THE GENERAL RULE THAT LINE 220 01-20 YOU USE OR REFER TO THE GENERAL RULE THAT LINE 227 01-20 YOU USE OR REFER TO THE GENERAL RULE THAT LINE 228 01-20 YOU USE OR REFER TO THE GENERAL RULE THAT LINE 229 01-20 YOU USE OR REFER TO THE GENERAL RULE THAT LINE 220 01-20 YOU USE OR REFER TO THE GENERAL RULE THAT LINE 220 01-20 YOU USE OR REFER TO THE GENERAL RULE THAT LINE 228 01-20 YOU USE OR REFER TO THE GENERAL RULE THAT LINE 229 01-20 YOU USE OR REFER TO THE GENERAL RULE THAT LINE 220 01-20 YOU USE OR REFER TO THE GENERAL RULE THAT LINE 220 01-20 YOU USE OR REFER TO THE GENERAL RULE THAT LINE 220 01-20 YOU USE OR REFER TO THE GENERAL RULE THAT LINE 220 01-20 YOU USE OR REFER TO THE GENERAL RULE THAT WALE 220 01-20 YOU USE OR RULE TO THE GENERAL RULE THAT WALE 220 01-20 YOU USE OR RULE TO THE GENERAL RULE THAT WALE 220 01-20 YOU USE OR RULE OF THE RULE THAT WALE 220 01-20 YOU USE OR THE RULE	CIRCUITS DI-28 DO YOU CALCULATE TRUE POWER (PT) FOR	RCL	0	15	0	0	0	0	a	0	•	•	0	
210 D-30 DO YOU CALCULATE TOTAL CURRENT FOR PARALLEL NCL 210 D-31 DO YOU CALCULATE TOTAL LIMPEDANCE FOR PARALLEL NCL 210 D-31 DO YOU CALCULATE TOTAL LIMPEDANCE FOR PARALLEL NCL 210 D-32 DO YOU CALCULATE TOTAL LIMPEDANCE FOR PARALLEL NCL 210 D-33 DO YOU CALCULATE TOTAL LIMPEDANCE FOR PARALLEL NCL 210 D-33 DO YOU CALCULATE TOTAL LIMPEDANCE FOR PARALLEL NCL 210 D-33 DO YOU CALCULATE TOTAL LIMPEDANCE FOR PARALLEL NCL 210 D-33 DO YOU CALCULATE TOTAL LIMPEDANCE FOR PARALLEL NCL 210 D-33 DO YOU CHECK CAPACITORS USING SUBSTITUTION 220 D-34 DO YOU CHECK CAPACITORS USING SUBSTITUTION 221 D-35 DO YOU CHECK LIMPUTORS USING SUBSTITUTION 222 D-35 DO YOU CHECK LIMPUTORS USING SUBSTITUTION 223 D-35 DO YOU CHECK LIMPUTORS USING SUBSTITUTION 224 D-35 DO YOU CHECK LIMPUTORS USING SUBSTITUTION 225 D-36 DO YOU CHECK LIMPUTORS USING SUBSTITUTION 227 D-35 DO YOU CHECK LIMPUTORS USING SUBSTITUTION 228 D-36 DO YOU USE OR REFER TO THE GENERAL RULE THAT LIME 229 D-35 DO YOU USE OR REFER TO THE GENERAL RULE THAT LIME 220 D-35 DO YOU USE OR REFER TO THE GENERAL RULE THAT HALF 221 D-35 DO YOU USE OR REFER TO THE GENERAL RULE THAT HALF 222 D-35 DO YOU USE OR REFER TO THE GENERAL RULE THAT HALF 223 D-35 DO YOU USE OR REFER TO THE GENERAL RULE THAT HALF 224 D-35 DO YOU USE OR REFER TO THE GENERAL RULE THAT HALF 225 D-35 DO YOU USE OR REFER TO THE GENERAL RULE THAT HALF 226 D-35 D-37 DO YOU USE OR REFER TO THE GENERAL RULE THAT HALF 227 D-37 DO YOU USE OR REFER TO THE GENERAL RULE THAT HALF 228 D-37 DO YOU USE OR REFER TO THE GENERAL RULE THAT HALF 228 D-37 DO YOU USE OR REFER TO THE GENERAL RULE THAT HALF 228 D-37 DO YOU USE OR REFER TO THE GENERAL RULE THAT HALF 228 D-37 DO YOU USE OR REFER TO THE GENERAL RULE THAT HALF 228 D-37 DO YOU USE OR REFER TO THE GENERAL RULE THAT HALF 229 D-37 DO YOU USE OR REFER TO THE GENERAL RULE THAT HALF 228 D-37 DO YOU USE OR REFER TO THE GENERAL RULE THAT HALF 229 D-37 DO YOU USE OR REFER TO THE GENERAL RULE THAT HALF 228 D-37 DO YOU USE OR REFER TO THE GENERAL RULE THAT HALF	CIRCUITS DI-29 DO YOU CALCULATE POWER FACTORS (PF) FOR SER		0	15	~	2	0	0	0	٥	=	•	100	
215 01-31 DO TOU CALCULATE IMPEDANCE ANGLES FOR PARALLEL RCL 216 01-31 DO TOU CALCULATE IMPEDANCE FOR PARALLEL RCL 217 01-31 DO TOU CALCULATE TOTAL IMPEDANCE FOR PARALLEL RCL 218 01-32 DO TOU CALCULATE TOTAL IMPEDANCE FOR PARALLEL RCL 218 01-35 DO TOU CALCULATE TOTAL IMPEDANCE FOR PARALLEL RCL 219 01-35 DO TOU CALCULATE TOTAL IMPEDANCE FOR PARALLEL RCL 219 01-35 DO TOU CALCULATE TOTAL IMPEDANCE FOR PARALLEL RCL 219 01-35 DO TOU CALCULATE TOTAL IMPEDANCE FOR PARALLEL RCL 219 01-35 DO TOU CALCULATE TOTAL IMPEDANCE FOR PARALLEL RCL 220 01-35 DO TOU CALCULATE RCL 220 01-35 DO TOU CALCULATE RCL 221 01-35 DO TOU CALCULATE RCL 222 01-35 DO TOU USE ON REFER TO THE GENERAL RULE THAT 223 01-35 DO TOU USE ON REFER TO THE GENERAL RULE THAT 224 01-35 DO TOU USE ON REFER TO THE GENERAL RULE THAT LINE 225 01-36 DO TOU USE ON REFER TO THE GENERAL RULE THAT LINE 227 01-37 DO TOU USE ON REFER TO THE GENERAL RULE THAT LINE 228 01-37 DO TOU USE ON REFER TO THE GENERAL RULE THAT LINE 229 01-30 DO TOU USE ON REFER TO THE GENERAL RULE THAT LINE 220 01-30 DO TOU USE ON REFER TO THE GENERAL RULE THAT LINE 220 01-30 DO TOU USE ON REFER TO THE GENERAL RULE THAT LINE 220 01-30 DO TOU USE ON REFER TO THE GENERAL RULE THAT LINE 220 01-30 DO TOU USE ON REFER TO THE GENERAL RULE THAT LINE 220 01-30 DO TOU USE ON RULE ROTOR THE RESONANT PREQUENCY FOR PARALLEL RULE THAT HALF WALLE 226 01-30 DO TOU USE ON RULE ROTOR THE RESONANT PREQUENCY FOR PARALLEL RULE THAT HALF WALLE 227 01-30 DO TOU USE ON RULE ROTOR THE RESONANT PREQUENCY FOR POINTS ARE AT 70.7 PERCENT OF THE PEAK CURRENT VALUE 228 01-30 DO TOU USE ON RULE ROTOR THAT RATE THAT HALF 228 01-30 DO TOU USE ON RULE ROTOR THAT RATE THAT HALF 228 01-30 DO TOU USE ON RULE ROTOR THAT RATE THAT HALF 228 01-30 DO TOU USE ON RULE ROTOR THAT RATE THAT HALF 229 01-30 DO TOU USE ON RULE ROTOR THAT RATE THAT HALF 220 01-30 DO TOU USE ON RULE ROTOR THAT RATE THAT HALF 220 01-30 DO TOU USE ON RULE ROTOR THAT RATE THAT HALF 220 01-30 DO TOU USE ON RULE ROTOR THAT THAT HAL	DI-30 DG YOU CALCULATE TOTAL CURRENT	MCL	0	5	•	2	•	٥	0	٥	=	•	001	
STREUTES USING THE SAME NOT ALL	CIRCUITS DI-31 DO TOU CALCULATE IMPEDANCE ANGLES FOR	_	0	51	7	~	•	٥	9	٥	=	•	100	
CIRCUITS USING THE ASSURED VOLTAGE METHOD 21 01-33 DO YOU CALCULATE TOTAL IMPROANCE FOR PARALLEL RCL 22 01-33 DO YOU CALCULATE TOTAL IMPROANCE FOR PARALLEL RCL 23 01-34 DO YOU CALCULATE TOTAL IMPROANCE FOR PARALLEL RCL 24 01-35 DO YOU CHECK CAPACITORS USING OHNNTERS 25 01-35 DO YOU CHECK INDUCTORS USING SUBSTITUTION 22 01-34 DO YOU CHECK INDUCTORS USING SUBSTITUTION 22 01-35 DO YOU USE ON REFER TO THE GENERAL RULE THAT 23 01-35 DO YOU USE OR REFER TO THE GENERAL RULE THAT LINE 24 01-35 DO YOU USE OR REFER TO THE GENERAL RULE THAT LINE 25 01-35 DO YOU USE OR REFER TO THE GENERAL RULE THAT LINE 26 01-37 DO YOU USE OR REFER TO THE GENERAL RULE THAT LINE 27 01-35 DO YOU USE OR REFER TO THE GENERAL RULE THAT LINE 28 01-37 DO YOU USE OR REFER TO THE GENERAL RULE THAT LINE 28 01-37 DO YOU USE OR REFER TO THE GENERAL RULE THAT LINE 27 01-37 DO YOU USE OR REFER TO THE GENERAL RULE THAT LINE 28 01-37 DO YOU USE OR REFER TO THE GENERAL RULE THAT LINE 28 01-37 DO YOU USE OR REFER TO THE GENERAL RULE THAT THAT ROONE TO YOU USE OR REFER TO THE GENERAL RULE THAT THAT ROONE TO YOU USE OR REFER TO THE GENERAL RULE THAT THAT ROONE TO YOU USE OR REFER TO THE GENERAL RULE THAT THAT ROONE TO YOU USE OR REFER TO THE GENERAL RULE THAT WAS TO SO TO USE OR REFER TO THE GENERAL RULE THAT WAS TO SO TO TO TO YOU USE OR REFER TO THE GENERAL RULE THAT WAS TO SO TO YOU USE OR REFER TO THE GENERAL ROONE TO YOU USE OR REFER TO THE GENERAL RULE THAT WAS TO SO TO YOU USE OR REFER TO THE GENERAL RULE THAT WAS TO SO TO YOU USE OR REFER TO THE GENERAL RULE THAT WAS TO YOU USE OR REFER TO THE GENERAL RULE THAT WAS TO SO TO YOU USE OR REFER TO THE GENERAL RULE THAT WAS TO YOU USE OR REFER TO THE GENERAL RULE THAT WAS TO YOU USE	CIRCUITS DI-32 DO YOU CALCULATE TOTAL IMPEDANCE FOR	Œ	0	1.5	0	0	٥	0	0	0	=		001	
CIRCUITS USING OMMMS LAW	CIRCUITS USING THE ASSUMED VOLTAGE METHOD DI-33 DO YOU CALCULATE TOTAL IMPEDANCE FOR		•	51	5	•	۰	7	10	0	=	•	100	
220 01-35 DO TOU CHECK CAPACITORS USING SUBSTITUTION 220 01-36 DO TOU CHECK INDUCTORS USING SUBSTITUTION 220 01-36 DO TOU USE OR REER TO THE GENERAL RULE THAT 221 01-37 DO TOU USE OR REER TO THE GENERAL RULE THAT 222 01-39 DO TOU USE OR REER TO THE GENERAL RULE THAT LIME 223 01-39 DO TOU USE OR REER TO THE GENERAL RULE THAT LIME 224 01-39 DO TOU USE OR REER TO THE GENERAL RULE THAT LIME 225 01-49 DO TOU USE OR REER TO THE GENERAL RULE THAT LIME 226 01-42 DO TOU USE OR REER TO THE GENERAL RULE THAT HALF 226 01-42 DO TOU USE OR REER TO THE GENERAL RULE THAT HALF 226 01-42 DO TOU USE OR REER TO THE GENERAL RULE THAT HALF 227 01-49 DO TOU USE OR REER TO THE GENERAL RULE THAT HALF 228 01-49 DO TOU USE OR REER TO THE GENERAL RULE THAT HALF 228 01-49 DO TOU USE OR REER TO THE GENERAL RULE THAT THER 229 01-49 DO TOU USE OR REER TO THE GENERAL RULE THAT WALLE 220 1-49 DO TOU USE OR REER TO THE GENERAL RULE THAT WALLE 228 01-49 DO TOU USE OR REER TO THE GENERAL RULE THAT WALLE 229 01-49 DO TOU USE OR REER TO THE GENERAL RULE THAT WALLE 220 1-49 DO TOU USE OR REER TO THE GENERAL RULE THAT WALLE 220 1-49 DO TOU USE OR REER TO THE GENERAL RULE THAT WALLE 220 1-49 DO TOU USE OR REER TO THE GENERAL RULE THAT WALLE 228 01-49 DO TOU USE OR REER TO THE GENERAL RULE THAT WALLE 229 01-49 DO TOU USE OR REER TO THE GENERAL RULE THAT WALLE 220 1-49 DO TOU USE OR REER TO THE GENERAL RULE THAT WALLE 220 1-49 DO TOU USE OR REER TO THE GENERAL RULE THAT WALLE 220 1-49 DO TOU USE OR REER TO THE GENERAL RULE THAT WALLE 220 1-49 DO TOU USE OR REER TO THE GENERAL RULE THAT WALLE 220 1-49 DO TOU USE OR REER TO THE GENERAL RULE THAT WALLE 220 1-49 DO TOU USE OR REER TO THE GENERAL RULE THAT WALLE 220 1-49 DO TOU USE OR RULE TO THE GENERAL RULE THAT WALLE 220 1-40 DO TOU USE OR RULE THAT WALLE 220 1-40 DO TOU USE OR RULE THAT WALLE 230 0 D D D D D D D D D D	CIRCUITS USING OHM'S LAW		;	1	:		:	•	3	c	;	•	00	
220 01-36 DO YOU CHECK INDUCTORS USING OMMRETERS 221 01-35 DO YOU CHECK INDUCTORS USING OMMRETERS 221 01-37 DO YOU CHECK INDUCTORS USING SUBSTITUTION 222 01-38 DO YOU CHECK INDUCTORS USING SUBSTITUTION 222 01-38 DO YOU CHECK INDUCTORS USING SUBSTITUTION 223 01-38 DO YOU CALCULATE RESONANT CIRCUITS 223 01-39 DO YOU CALCULATE RESONANT FREQUENCIES FOR RCL 223 01-39 DO YOU USE OR REFER TO THE GENERAL RULE THAT 1MPEDANCE IS MINIMUM AND CURRENT MAXIMUM AT THE RESONANT FREQUENCY FOR SERIES RCL CIRCUITS 225 01-41 DO YOU USE OR REFER TO THE GENERAL RULE THAT HALF FREQUENCY FOR PARALLEL RCL CIRCUITS 225 01-42 DO YOU USE OR REFER TO THE GENERAL RULE THAT HALF FREQUENCY FOR PARALLEL RCL CIRCUITS 226 01-42 DO YOU USE OR REFER TO THE GENERAL RULE THAT HALF FREQUENCY FOR PARALLEL RCL CIRCUITS 226 01-42 DO YOU USE OR REFER TO THE GENERAL RULE THAT HALF FREQUENCY FOR PARALLEL RCL CIRCUITS 226 01-43 DO YOU USE OR REFER TO THE GENERAL RULE THAT HALF FREQUENCY FOR PARALLEL RCL CIRCUITS 227 01-43 DO YOU USE OR REFER TO THE GENERAL RULE THAT HALF FREQUENCY FOR PARALLEL RCL CIRCUITS 228 01-43 DO YOU USE OR REFER TO THE GENERAL RULE THAT HALF BANDWIDTH IS INVERSELY PROPORTIONAL TO 9 228 01-44 DO YOU DETERMINE HOW CHARGES IN FREQUENCY, RESISTANCE CAPACITANCE A ROBERT FOR THE CONTINUE THAT RESONANT A ROBER FOR RCL CIRCUITS	DI-35 DO YOU CHECK CAPACITORS USING		2	3.0	9-	-	6-	=	20	0	17		0	
222 01-39 DO TOU USE ON REFER TO THE GENERAL RULE THAT 223 01-39 DO TOU USE ON REFER TO THE GENERAL RULE THAT 223 01-39 DO TOU USE ON REFER TO THE GENERAL RULE THAT 224 01-30 DO TOU USE ON REFER TO THE GENERAL RULE THAT IMPEDANCE IS MINIMUM AND CURRENT MAXIMUM AT THE RESONANT FREQUENCY FOR SERIES RCL CIRCUITS 225 01-41 DO TOU USE ON REFER TO THE GENERAL RULE THAT LIME REQUENCY FOR SERIES RCL CIRCUITS 225 01-42 DO TOU USE ON REFER TO THE GENERAL RULE THAT HALF REQUENCY FOR PARALLEL RCL CIRCUITS 226 01-42 DO TOU USE ON REFER TO THE GENERAL RULE THAT HALF REQUENCY FOR PARALLEL RCL CIRCUITS 227 01-43 DO TOU USE ON REFER TO THE GENERAL RULE THAT HALF ROWER POINTS ARE AT 70.7 PERFECH TO THE FEAK CURRENT VALUE BANDWIDTH IS INVENSELY PROPORTIONAL TO 9 227 01-43 DO TOU USE ON REFER TO THE GENERAL RULE THAT BANDWIDTH IS INVENSELY PROPORTIONAL TO 9 228 01-44 DO TOU DETERMINE HOW CHANGES IN FREGUENCY, RESISTANCE AMBLES FOR RCL CIRCUITS AMBLES FOR RCL CIRCUITS	DI-36 DO YOU CHECK INDUCTORS USING		52	9.	53	20	5	•	9	0	22	• :	001	
THETAE O, PF = 1. AND PA = PT FOR RESONANT CIRCUITS 22 101-37 DO TOU CALCULATE RESONANT FREQUENCIES FOR RCL 22 101-37 DO TOU USE OR REFER TO THE GENERAL RULE THAT IMPEDANCE IS MINIMUM AND CURRENT MAXIMUM AT THE RESONANT FREQUENCY FOR SERIES RCL CIRCUITS 22 5 01-41 DO TOU USE OR REFER TO THE GENERAL RULE THAT LIME 22 5 01-42 DO TOU USE OR REFER TO THE GENERAL RULE THAT HALF 22 6 01-42 DO TOU USE OR REFER TO THE GENERAL RULE THAT HALF 22 6 01-42 DO TOU USE OR REFER TO THE GENERAL RULE THAT HALF 22 7 01-42 DO TOU USE OR REFER TO THE GENERAL RULE THAT HALF BANGWIDTH IS INVERSELY PROPORTIONAL TO 9 22 7 01-43 DO TOU USE OR REER TO THE GENERAL RULE THAT HALF BANGWIDTH IS INVERSELY PROPORTIONAL TO 9 22 01-42 DO TOU USE OR REER TO THE GENERAL RULE THAT HALF BANGWIDTH IS INVERSELY PROPORTIONAL TO 9 22 01-42 DO TOU USE OR REER TO THE GENERAL RULE THAT HALF BANGWIDTH IS INVERSELY PROPORTIONAL TO 9 22 01-42 DO TOU USE OR REER TO THE GENERAL RULE THAT HALF BANGWIDTH IS INVERSELY PROPORTIONAL TO 9 22 01-42 DO TOU USE OR REER TO THE GENERAL RULE THAT HASE AMELES FOR RECE OF THE CONTROL TO 9 24 01-45 DO TOU USE OR REER TO THE GENERAL RULE THAT HASE	DI-38 DO YOU USE ON REFER TO THE GENERAL RULE		20	, 0	• ~	• ~	- 0	- ~	9 0			- 0	0 0	
CIRCUITS 10 ON TOU USE OR REFER TO THE GENERAL RULE THAT 11 INPEDANCE IS INITIATED AND CURENT HAXIMUM AT THE RESONANT 12 SO 11-41 DO YOU USE OR REFER TO THE GENERAL RULE THAT LIME 22 SO 11-41 DO YOU USE OR REFER TO THE GENERAL RULE THAT HALF 22 SO 11-41 DO YOU USE OR REFER TO THE GENERAL RULE THAT HALF 22 SO 11-42 DO YOU USE OR REFER TO THE GENERAL RULE THAT HALF 22 SO 11-43 DO YOU USE OR REFER TO THE GENERAL RULE THAT WALUE 22 SO 11-43 DO YOU USE OR REFER TO THE GENERAL RULE THAT 22 SO 11-43 DO YOU USE OR REFER TO THE GENERAL RULE THAT 22 DO TOU USE OR REFER TO THE GENERAL RULE THAT 22 DO TOU USE OR REFER TO THE GENERAL RULE THAT 22 DO TOU USE OR REFER TO THE GENERAL RULE THAT 22 DO TOU USE OR REFER TO THE GENERAL RULE THAT 22 DO TOU USE OR REFER TO THE GENERAL RULE THAT 22 DO TOU USE OR REFER TO THE GENERAL RULE THAT 22 DO TOU USE OR REFER TO THE GENERAL RULE THAT 22 DO TOU USE OR REFER TO THE GENERAL RULE THAT 22 DO TOU USE OR REFER TO THE GENERAL RULE THAT 22 DO TOU USE OR REFER TO THE GENERAL RULE THAT 24 DO TOU USE OR REFER TO THE GENERAL RULE THAT 25 DO TOU USE OR REFER TO THE GENERAL RULE THAT 26 DO TOU USE OR REFER TO THE GENERAL RULE THAT 27 DO TOU USE OR REFER TO THE GENERAL RULE THAT 27 DO TOU USE OR REFER TO THE GENERAL RULE THAT 28 DO TOU USE OR REFER TO THE GENERAL RULE THAT 27 DO TOU USE OR REFER TO THE GENERAL RULE THAT 28 DO TOU USE OR REFER TO THE GENERAL RULE THAT 27 DO TOU USE OR REFER TO THE GENERAL RULE THAT 28 DO TOU USE OR REFER TO THE GENERAL RULE THAT 29 DO TOU USE OR REFER TO THE GENERAL RULE THAT WAS THE THAT WAS THE TOUR THAT WAS THE THAT WAS THE THAT WAS THE THE TOUR THAT WAS THE T	THETAR O. PF . I. AND PA . PT FOR RESONANT	. TS	•		•	~		٥	0	0	=	•	001	
IMPEDANCE IS MINIMUM AND CURRENT MAXIMUM AT THE RESONANT FREQUENCY FOR SERIES RCL CIRCUITS 225 01-41 DO YOU USE OR REFER TO THE GENERAL RULE THAT HALF CURRENT IS MINIMUM AND IMPEDANCE MAXIMUM AT RESONANT 6 15 7 9 0 3 0 0 11 6 226 01-42 DO YOU USE OR REFER TO THE GENERAL RULE THAT HALF FREQUENCY FOR PARALLEL RCL CIRCUITS FREQUENCY FOR PARALLEL RCL CIRCUITS 7 9 0 3 0 0 11 6 226 01-43 DO YOU USE OR REFER TO THE GENERAL RULE THAT HALF BANDWIDTH IS INVERSELY PROPORTIONAL TO 9 7 9 13 0 20 0 11 6 228 01-43 DO YOU USE OR MENSELY PROPORTIONAL TO 9 8 7 9 13 0 20 0 11 6 CAPACITANCE OR INDUCTANCE WILL AFFECT CURRENT OR PHASE 8 5 9 6 3 10 0 11 6 CAPACITANCE OR INDUCTANCE WILL AFFECT CURRENT OR PHASE 8 8 9 6 5 10 0 11 6 CAPACITANCE OR INDUCTANCE WILL AFFECT CURRENT OR PHASE 8 8 9 6 5 10 0 11 6 CAPACITANCE OR INDUCTANCE WILL AFFECT CURRENT OR PHASE 8 8 9 6 5 10 0 11 6 CAPACITANCE OR INDUCTANCE WILL AFFECT CURRENT OR PHASE 8 8 9 6 5 10 0 0 11 6 CAPACITANCE OR INDUCTANCE WILL AFFECT CURRENT OR PHASE 8 8 9 6 6 5 10 0 0 11 6 CAPACITANCE OR INDUCTANCE WILL AFFECT CURRENT OR PHASE 8 9 9 6 5 10 0 0 11 6 CAPACITANCE OR INDUCTANCE WILL AFFECT CURRENT OR PHASE 8 9 9 6 5 10 0 0 11 6 CAPACITANCE OR INDUCTANCE WILL AFFECT CURRENT OR PHASE 8 9 9 6 5 10 0 0 11 6 CAPACITANCE OR INDUCTANCE WILL AFFECT CURRENT OR PHASE 8 9 9 6 5 10 0 0 11 6 CAPACITANCE OR INDUCTANCE WILL AFFECT CURRENT OR PHASE 8 9 9 6 6 5 10 0 0 11 6 CAPACITANCE OR INDUCTANCE WILL AFFECT CURRENT OR PHASE 8 9 9 6 6 5 10 0 0 11 6 CAPACITANCE OR INDUCTANCE WILL AFFECT CURRENT OR PHASE 8 9 9 6 6 5 10 0 0 11 6 CAPACITANCE OR INDUCTANCE WILL AFFECT CURRENT OR PHASE 8 9 9 6 6 5 10 0 0 11 6 CAPACITANCE OR INDUCTANCE WILL AFFECT CURRENT OR PHASE 8 9 9 6 6 5 10 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	CIRCUITS OF YOU USE OR RESERTED THE SEMERAL RULE		c			1		=	-	9	=		00	
225 DI-91 DO VOU USE OR REFER TO THE GENERAL RULE THAT LINE 8 6 8 9 6 5 10 0 11 6 CURRENT 15 MINIMUM AND IMPEDANCE MAXIMUM AT RESONANT FREQUENCY FOR PARALLEL RCL CIRCUITS 226 DI-42 DO TOU USE OR PEFER TO THE GENERAL RULE THAT HALF 8 15 7 9 0 3 0 0 11 6 227 DI-43 DO TOU USE OR REFER TO THE GENERAL RULE THAT HALF 0 8 7 9 13 0 20 0 11 6 228 DI-43 DO TOU USE OR REFER TO THE GENERAL RULE THAT BANCHIDTH 15 INVERSELY PROPORTIONAL TO 8 228 DI-43 DO TOU DETERMINE HOW CHANGES IN FREQUENCY, RESISTANCE 0 8 5 9 6 3 10 0 11 6 228 DI-43 DO TOU DETERMINE HOW CHANGES IN FREQUENCY, RESISTANCE 0 8 5 9 6 3 10 0 11 6 328 DI-43 DO TOU DETERMINE HOW CHANGE MILL AFFECT CURRENT OR PHASE	IMPEDANCE IS MINIMUM AND CURRENT MAXIMUM AT THE	ESOMANT							2					
FREQUENCY FOR PARALLEL RCL CIRCUITS 226 01-42 DO TOU USE ON REFER TO THE GENERAL RULE THAT HALF 8 15 7 9 0 3 0 0 11 6 227 01-43 DO TOU USE ON REFER TO THE GENERAL RULE THAT BANDWIDTH IS INVERSELY PROPORTIONAL TO 8 7 9 13 0 20 0 11 6 228 01-43 DO TOU USE ON REFER TO THE GENERAL RULE THAT BANDWIDTH IS INVERSELY PROPORTIONAL TO 9 228 01-43 DO TOU DETERMINE HOW CHANGES IN FREQUENCY, RESISTANCE 0 8 5 9 6 3 10 0 11 6 1 CARCLITANCE, OR INDUCTANCE WILL AFFECT CURRENT OR PHASE	DI-41 DO YOU USE OR REFER TO THE GENERAL RULE CURRENT IS MINIMUM AND IMPEDANCE MAXIMUM AT	LINE	co	•		•	4	s	0	0	=	٠	001	
POWER POINTS ARE AT 70.7 PERCENT OF THE PEAK CURRENT VALUE 227 DI==3 DO 70U USE OR REFER TO THE GENERAL RULE THAT DAMOWIDTH IS INVERSELY PROPORTIONAL TO 9 228 DI==4 DO 70U DETERMINE HOW CHAMGES IN FREQUENCY, RESISTANCE CAPACITANCE, OR INDUCTANCE WILL AFFECT CURRENT OR PHASE AMGLES FOR FCL CIRCUITS	FREQUENCY FOR PARALLEL RCL CIRCUITS 01-42 DO TOU USE OR REFER TO THE GENERAL RULE		•	51	,	۰	0	-	0	0		•	100	
BANDWIDTH IS INVERSELY PROPORTIONAL TO 9 228 DI=44 DO YOU DETERMINE HOW CHANGES IN FREQUENCY, RESISTANCE O 8 5 4 6 3 10 0 11 4 1. CARCITANCE, ON INDUCTANCE WILL AFFECT CURRENT OR PHASE AMMGES FOR RCL CIRCUITS	POWER POINTS ARE AT 70.7 PERCENT OF THE PEAK DI-13 DO YOU USE OR REFER TO THE GENERAL RULE	VAL	0		1		-	0	20	0	=	•	100	
ANGLES FOR RCL CIRCUTS	BANDWIDTH IS INVERSELY PROPORTIONAL TO B	IESISTANCE	٥	60	20		40	~	10	0			001	
	AFFECT CURRENT	OR PHASE												

MBHS RESPONDING .YES. BY SELECTED GRPS SUMMARY SROUP PCT

-(TIME CONSTANTS) FILTERS PARALLEL RESONANCE SERIES AND 5PC 236 888 100 00 000 00 001 0 8000 88836 3000 00 5 PC 8 . . 24 2 4 2 234 22 = = . 7 5PC 233 20 000 20 00 0 0 0 2200222 200000000 10 5PC 30 20 20 30 0 q 9 20 500000 0000000000 0 0 ~ Spc 231 22 . -0 0 00 32 5PC 3 20 d 4 25 5PC 54 -. 36 * T 9 * O * 0 74660644 5PC 2 0 . ~ 56 39 5PC 227 . 20 . . 0 8 1 200 1 00 0 0 0 20000000 CAPACITOR IS FULLY CHARGED (OR DISCHARGED) AFTER FIVE (S)
TIME COMSTANTS (IC)
D2-04 DO YOU USE GRAFFER TO UNIVERSAL TIME CONSTANT CHARTS
D2-07 DO YOU USE EQUATIONS OR FORMULAS TO DETERMINE
CIRCUIT CURRENT OR COMPONENT VOLTAGES AFTER A SPECIFIC
TIME FOR RC OR LR CIRCUITS
D2-08 DO YOU USE EQUATIONS OR FORMULAS TO DETERMINE THE
REACH SPECIFIC VALUES FOR RC OR CIRCUITS
D2-09 DO YOU USE EQUATIONS OR FORMULAS TO DETERMINE
COMPONENT VALUES REQUIRED FOR CIRCUIT D2=01 IN YOUR PRESENT JOB, DO YOU WORK WITH, USE, OR REFER TO SERIES OR PARALLEL RESONANT CIRCUITS ON TIME CONSTANTS D2=02 DO YOU WORK WITH, USE, OR REFER TO TIME CONSTANTS D2=03 DO YOU WORK WITH, USE, OR REFER TO TRANSLENT D3=04 DO YOU WORK WITH, USE, OR REFER TO TRANSLENT CLEAN FILTER CIRCUITS
ALIGN OR ADJUST FILTER CIRCUITS
TROUBLESHOOT TO THE FILTER CIRCUIT LEVEL
TROUBLESHOOT TO COMPONENT PARTS
RENOVE OR REPLACE THE COMPLETE FILTER CIRCUIT
RENOVE ON REPLACE FILTER CIRCUIT COMPONENT Z-10 DO YOU USE OR REFER TO THE GENERAL RULE THAT CURRENT IN LR CIRCUITS REACHES ITS MINIMUM VALUE (OR ZERO) AFTER COMPONENT VOLTAGES TO HEACH SPECIFIC VALUES IN SPECIFIC DO YOU WORK WITH LOW PASS FILTERS
DO YOU WORK WITH HIGH PASS FILTERS
DO YOU WORK WITH BAND-REJET FILTERS
DOW'T REMEMBER WHICH THE OF FILTER YOU WORK WITH
DO YOU WORK WITH E-SECTION FILTER CONFIGURATION
DO YOU WORK WITH L-SECTION FILTER CONFIGURATION DO YOU WORK WITH PI-SECTION FILTER CONFIGURATION DOW'T REMEMBER WHICH TYPE FILTER CONFIGURATION OF THE FILTERS YOU WORK WITH USE PARALLEL RESONANT RULE THAT TIME COMSTANTS
TOU WORK WITH CIRCUITS USED AS FILTERS IN GENERAL INSPECT FILTER CIRCUITS D2-05 DO YOU USE OR REFER TO THE 0y-75K PERCENT NEMBERS PERFORMING 222222 400 NTERVALS 151 00 00 88888 03-04 ARTS 07-20 03-10 03-13 1-60 91-10 03-10 03-12 03-17 03-11 234 229 230 233 236 237 346 232 239 245 250 252 253 552 457 299 251 00 9 00 0 0 0 000

00 00

20 20

30 30

6 9

27 29

7.0 7.

45 42

28

3

23 =

D3-20 DO THE FILTERS TOU WORK WITH USE SERIES RESONANT DO THE FILTERS YOU WORK WITH USE SERIES-PARALLEL

CIRCUITS

258

INCHI

257

GPSH4C PAGE

GPSM4C PAGE 11

TASK GROUP SUMMARY

PERCENT MEMBERS PERFORMING																
				0Y-15K	326 226	5PC 227	5PC 228	5PC 229	5 P C	5 p C 231	5PC 232	5PC 233	5PC 234	235	5 PC 236	
6	25.9		100	THE PRINCE TO SENT MAINTER BEAUTION TOWNS TO SEND	35	2.3	oc.	00	0	49	20	30	22	*	0	
	260	0	C T A	S REQUIRE	11	0	7		0		00	0	=	•	100	
1	192		00	EI-GI DO YOU WORK WITH COUPLING DEVICES IN YOUR PRESENT JOB	50	9	33	31	38	22	40	20	33	5.6	100	
2	292	tal	00	C DIAGRAMS AND RELATE TO	80		33	31	38	22	10	20	28	24	100	
		341	ACTU	13												Course services
	. , ,		COUPLING	9 9 9 9 9 9 9 9 9 9 9 9 9 9 9 9 9 9 9 9	9	4 4	,	0		0	,	•	9.0	3		COUPLING
			ACTU	NTS ASSOCIATED WITH	2	2	2	,	,		3	2	:		2	
			DANG			-										
E 2	564		00	100	4.2	4	31	58	38	-	0	20	28	24	100	
		10.4	AFOR	S ASSOCIATED	-											
£ 2	245		00	E1-US DO YOU TROUBLESHOOT CIRCUITS WHICH HAVE COMPONENTS	20	9	28	54	38	6	•	20	11	12	001	
			M H													
2 3	500		00	EI-DE DO YOU TROUBLESHOOT CIRCUITS WHICH MAVE COMPONENTS	20	38	35	5.8	25	6	20	20	22		100	
	. 7 .	-	4	3		4	26	3.6	2	•	1	•	1.7		0	
	107		2 4	NA	200		0		9	-	0	2			20	
	268		00	0	20	9#	28	12	3,1	1 6	30	20	97	5.0	100	
2 3	500		00	E1-09 DO YOU WORK WITH CAPACITIVE-RESISTIVE COUPLED	80	•	7.6	54	31	•	30	50	28	24	100	
3.6			CIRCUITS		-				1	-						
F 2	210		CIRCUITS	CIRCUITS	20	5	97	5	-	-	9	2	97	,	001	
E 2	171	11-13	00	R COUPLED	20	9	3.6	54	31	•-	30	20	28	5.4	100	
	172	51-13	NOO.		25	•	=	77	1	=	9	0	•	•	0	
	273	£2-01	-	PERFORM S	83	9.2	19	16	88	-	0	00	7.2	16	0	
		1	2		3.6	1.3					1					-
	275	62-02		DO YOU SELECT TIPE OF SOLDER TO USE	C 4		70		9 4	5	0 0				o c	
	276		200	TOWNS TOWNS OF A PARTY OF THE P	75	6.2		62		. 54	100	04	36		0	
	277		00	STRIP INSULATION FROM	83	9.5	79	7.3		7.8	100	0.8	7.8	82	0	SOLDERING
	278		00	CONNECT OR DISCONNECT HEA	67	5.4	29	5.8	63	5.0	70	0	-	65	0	
	279		0	- 1	83	11	11	7		1.6	100	0	6.7	7.1	0	the state of the same
	280		00	CUT MIRES	6	5 .		2			100	08		8	0	
	107	22-04	0	TOO TILE ON SHAPE SOLDERING IRON TIPS	•	79		9	6	•		9		60	0	
	797		0 0	IN SOLDERING INON	2 6	0 0			80 0	2;	5	9 4	3,	0 :	0	
A .	707	63-13	000	CLEAN SOUDERING INON 1175	20	000			2 4	2	000	0 0		0	9 0	
	285		2 6	TIN OR BRE-TIN COMPLETORS	7.	17	2	9 4	75	2 4	0	4	67		0 0	
	286		00	INSPECT SOLDERED COM	83	11	7.4	7.1		16	•	90	7.8	82	0	
	287		00	DESOLDER COMMECTIONS	45	2	*	*			20	20	25	2.0	0	
	258	23	00	2	93	6.9	6.9	2.0	8	15°	100	90	20	53	0	
	289	100LS	00	TOU CLT COMPONENT LEADS TO REMOVE COMPONENTS	8.8	4.2	er er	0	0 9	43	70		95	•	0	
, ,	062	290 62-18	00	REMOVAL	25		23	27		2.	0 0	20	22	2	00	
				4			-				2	-				And in case of the last of the

MICROPHONES RELAYS 000 0000 800000000000000 00 100 00 8 00 00000000 5PC 235 53 29 = 00000000 317 0000 5 : 0000 00000000 27.0 0000000 000 9 2000 9 0 0 0 09 0 0000 0000000 232 0 20 000 202000000000000 0 0 0 c 0000 5PC 2 - 0 -38 0000 00000000 38 -6250020-2 5 5 5PC 000 5 50 20 26 95 26 0 0 9 5 1 1 2 42 - 9 9 . 9 26 42 . 59 . • ~ ~ ~ 4 2 4 21 5 99 54 79 6 5 11 0 0000 00000000 5 6 9 -0 2 4 2 0 75 75 75 0 0000 00000000 67 85452 4 2 75 75 95 E3-01 DO YOU VARIETY ON TOWN PRESENT JOB
96 E3-02 DO YOU CLEAN RELAYS
97 E3-02 DO YOU CLEAN RELAYS
97 E3-03 DO YOU CLEAN RELAYS
98 E3-03 DO YOU NEMOVE OR REPLACE PARTS OR RELAYS
98 E3-04 DO YOU REMOVE OR REPLACE PARTS OR RELAYS
99 E3-05 DO YOU REMOVE OR REPLACE PARTS OR RELAYS
90 E3-05 DO YOU PERFORM TASKS ON RELAY CONTACTS
90 E3-07 DO YOU PERFORM TASKS ON RELAY CONTACTS
90 E3-10 DO YOU PERFORM TASKS ON RELAY CONTACTS
90 E3-11 DO YOU PERFORM TASKS ON RELAY CONTACTS
90 E3-11 DO YOU PERFORM TASKS ON RELAY SHINGS
90 E3-11 DO YOU PERFORM TASKS ON RELAY SHINGS
90 E3-11 DO YOU PERFORM TASKS ON RELAY SHINGS
90 E3-12 DO YOU PERFORM TASKS ON RELAY SHINGS
90 E3-14 DO YOU USE OR REFER TO SINGLE POLE, SINGLE THROW (SPST), NORMALLY CLOSED (NC) SCHEMATIC SYMBOLS FOR RELAYS
90 E3-15 DO YOU USE OR REFER TO SINGLE POLE, DOUBLE THROW (SPST), NORMALLY CLOSED FOR RELAYS
91 E3-15 DO YOU USE OR REFER TO SINGLE POLE, DOUBLE THROW (SPST) SCHEMATIC SYMBOLS FOR RELAYS
91 E3-15 DO YOU USE OR REFER TO DOUBLE POLE, DOUBLE THROW (SPST) SCHEMATIC SYMBOLS FOR RELAYS
91 E3-15 DO YOU USE OR REFER TO DOUBLE POLE, DOUBLE THROW (SPST) SCHEMATIC SYMBOLS FOR RELAYS
92 E3-15 DO YOU USE OR REFER TO DOUBLE POLE, DOUBLE THROW (SPST) SCHEMATIC SYMBOLS FOR RELAYS
94 E3-15 DO YOU USE OR REFER TO DOUBLE POLE, DOUBLE THROW (SPST) SCHEMATIC SYMBOLS FOR RELAYS
95 E3-15 DO YOU USE OR REFER TO DOUBLE POLE, DOUBLE THROW (SPST) SCHEMATIC SYMBOLS FOR RELAYS
95 E3-15 DO YOU USE OR REFER TO DOUBLE POLE, DOUBLE THROW (SPST) SCHEMATIC SYMBOLS FOR RELAYS
95 E3-15 DO YOU USE OR REFER TO DOUBLE POLE, DOUBLE THROW (SPST) SCHEMATIC SYMBOLS SCHEMATIC 80 PERFORM ANY TASKS DEALING 2-19 DO YOU MAKE WARDWIRE CONNECTIONS
2-20 DO YOU MAKE PRINTED CIRCUIT BOARD CONNECTIONS
2-21 DO YOU SOLDER PASSIVE COMPONENTS SUCH AS RESISTORS (
CAPACITORS ON PRINTED CIRCUIT BOARDS
2-22 DO YOU SOLDER ACTIVE COMPONENTS SUCH AS SOLID-STATE
DIODES ON TRANSISTORS ON PRINTED CIRCUIT BOARDS
3-01 DO YOU WORK WITH RELAYS ON YOUR PRESENT JOB
3-02 DO YOU ADJUST RELAYS TROUBLESHOOT AS FAR AS CHECKING WIRE BUT DO NOT TROUBLESHOOT DOWN TO COMPONENT 1 TROUBLESHOOT DOWN TO HICROPHONE PARTS SYMBOLS FOR RELAYS
313 E3-19 DO YOU CHECK ELECTRICAL CONTINUITY OF COILS 314 F1-01 IN YOUR PRESENT JOB, DO TOU 1-02 DO TOU INSPECT MICROPHONES
1-03 DO TOU CLEAM MICROPHONES
1-04 DO TOU OPERATE MICROPHONES
1-05 DO TOU TROUBLESMOOT AS FAR
CONNECTIONS BUT DO NOT TROUBLESM DY-15K 1-06 DO YOU TROUBLES TASK GROUP SUMMARY PERCENT MEMBERS PERFORMING MICROPHONES £2-19 £2-20 £2-21 £3-06 £3-14 51-53 13-16 312 63-18 10-11 £2-23 63-10 £ 3-11 £3-13 311 £3-17 \$1-05 10-63 £3-12 294 309 310

00000000

00000000

VELDCITY RIBBON MICROPHONES

PERFORM TASKS ON CARBON NICROPHONES
PERFORM TASKS ON CAPACITOR NICROPHONES
PERFORM TASKS ON CRYSTAL NICROPHONES
PERFORM TASKS ON DYNAMIC NICROPHONES

01-14

F1-13

REHOVE OF REPLACE COMPLETE HIGROPHONES

GPSM4C PAGE 13

TASK GROUP SUMMARY

DY-75K	22¢	SPC 227	2 2 8 2 2 8	SPC 229	230 230	25.5	28.5 23.2	233	234	5PC 235	3PC	
IN YOUR PRESENT JOB, DO TOU PERFORM ANY TASKS DEALIN	9	0	٦	*	٥	~	0	0	•	•	o	
1			•	•		4			(
F 328 F2-02 DO TOU INSPECT SPEAKERS	2 6	2 0	~ (7 6	0	0	0	9 c	0	0	0	
			•	• :	0	, ,	0		•	•		SPEAKERS
F2-04 DO YOU OPERATE SPEAKERS	0		7	-	0	-	a	0	0	0	0	10
331 F2-05 DO YOU TROUBLESHOOT AS FAR AS CHECKING	0		7	~	0	0	0	0	0	0	0	
MS BUT DO NOT TROUBLESHOOT		-		-	-	-		-	-	-	-	
PARTS OF SPEAKERS												
F2-04 DO YOU TROUBLESHOOT DOWN TO SI	0		7	7	a	0	0	0	0	0	0	
F2-07 DO YOU REMOVE OR REPLACE COMPLETE	•		7	~	٥	0	0	0	0	0	0	
F2-08 DO YOU REMOVE OR REPLACE SPEAKER PAR	0	-	7	7	a	0	0	0	0	0	0	
F2-09 DO YOU PERFORM ANY TASKS ON SPEAKER	•		2	~	0	0	0	0	0	0	٥	
F2-10 DO YOU PERFORM ANY TASKS ON SPEAKER	0			7	٥	0	a	0	0	0	0	
F2-11 DO YOU PERFORM ANY TASKS ON SPEAKER FIELD	•		~	~	0	0	0	0	0	0	0	
DO YOU PERFORM ANY TASKS ON	0			~	٥	0	0	0	0	0	0	
FR-13 DO YOU PERFORM ANY TASKS ON SPEAKER PERMANENT MAGNET	0		2	7	0	0	0	0	0	0	0	
F2-14 DO YOU PENFORM ANY TASKS ON SPEAKER ELECTROMAGNETS	0	0		7		0		0	0	0	0	
DO YOU PERFORM ANY TASKS	0		7	7	٩	9	٩	9	0	a	a	
F3-01 DO YOU USE OSCILLOSCOPES IN YOUR PRESENT	83		80	7.8	88	18	0.	09	8.	88	100	
YOU USE OSCILLOSCOPES	75	•	67	5	75	•	80	9	5	82	100	
CHECKS		-	-	-	-					-	-	
344 F3-03 DO TOU USE OSCILLOSCOPES TO PERFORM ALIGNMENTS OR		\$	0.0	00	-	•	0,	00	2	8 2	001	OSCILLOSCOPES
ADJUSTINES OF THE OFFICE OF TRANSPORT OF THE PROPERTY OF THE OFFICE OFFI	9.3	• 7	1	6.7	10	97		04		4	000	
Clacults		•		:	n	:		:			:	
F3-05 DO YOU USE OSCILLOSCOPES TO MEASURE	63	*	•		;	9	0	100	7.2	1,1	100	
USE OSCILLOSCOPES TO MEASURE		•	9.	42	5.	38	•	9	7.8	7.6	001	
TO OBSERVE	33	:	28	27	31	õ	30	3	28	54	100	
OSCILLOSCOPES TO DE	67	:	69	67	26	•	70	•	7.	7.6	001	
UTILIZING ATTENUATOR PROBES												
TO MA	42	-	7.6	5.0	•	5.	0	20	33	5.0	001	
IPLIERS									;			
V	67	1	7.2	;		9	•	00	2	1,6	001	
EASURE OR O	75	:	7	;	38	7	20	20	•	9	001	
STEER AND		6.6				3,	Y		7.0	7.6	00.	-
DO TOO USE USCILLUSCOPES TO MEASURE DE VOLTAGE			•	•	•	60	٩	2			2	
354 61-01 DO YOU WORK WITH SEMICONDUCTOR DIDDES IN YOUR PRESENT		2	24	21	•	2	0	100	•	24	001	-
61-02 00	1,	5	52	47	•	;	20	100	20	47	100	
61-03	1.	5	54	:	69	•	70	90	90	53	4	SEMICONDUCTOR
61-04	1.9	5	52	•	•	-	•	90	20	.,		DIODES
GI-05 DO YOU USE ENERGY LEVEL DIAGR	•		1	•	0	•	0	0	0	0	0	
010065												
G 359 61-06 DC 100 USE PM JUNCTION DIODE CHARACTERISTIC CURVES.	57	0	=	-	•	-	01	2	•	o	8	
			-					-	-			
	•			* *	-		97				1	

5PC . ; . -* = o d d . w • a d a a ; a a -GPSH4C PAGE 14 • ; ; = S S 2.5 G 377 GI-24 DO YOU USE OR REFER TO STABOLS ON THE DIODE WHICH
INDICATE THE CATHODE END
G 378 GI-25 DO YOU WEED TO KNOW WHICH HATERIALS ARE USED IN THE
COMSTRUCTION OF DIODES SUCH AS GERMANIUM OR SILICON
G 379 GI-26 DO YOU WEED TO KNOW THAT SETICONDUCTORS MAYE NEGATIVE
TEMPERATURE COEFFICIENTS OF RESISTANCE (AS TEMPERATURE CHARACTERISTIC CURVES, SUCH AS VOLTAGE - CURRENT CHARACTERISTIC CURVES (PERHAPS YOU DO THIS TO IDENTIFY FOLINTS OF STRUCTURAL BREAKDOWN OR OPERATING REGIONS) 61-20 DO YOU DETERMINE WHETHER PH JUNCTION DIDDES ARE FORMARD BIASED OR REVERSE BIASED WHEN YOU READ OR INTERPRET CIRCUIT DIAGRAMS 61-27 DG YOU USE OR REFER TO VALENCE BAND IN SEMICONDUCTOR I-16 DO YOU USE OR REFER TO KINETIC ENERGY OF AN ELECTRON MOVING IN ORBIT Z 10 N THEIR PHYSICAL APPEARANCE
6 343 61-10 DO YOU REFER TO OR DO YOU DETERMINE THE GENERAL
EFFECTS OF DOPING ON CURRENT FLOW
6 364 61-11 DO YOU USE OR REFER TO MEASUREMENTS OF FORWARD BIAS ELECTRON IN ORBIT ARGUND A NUCLEUS
6 347 61-14 DO YOU USE OR REFER TO CENTRIPETAL FORCE OF AN
ELECTRON IN ORBIT AROUND A NUCLEUS
6 368 61-15 DO YOU USE OR REFER TO DIODE NUMBERING SYSTEM, SUCH ELECTRON MOVING IN ORBIT 6 371 61-16 DO YOU USE OR REFER TO MEASUREMENTS OF REVERSE BIAS THE OUTERMOST SHELL: 374 61-23 DO YOU USE OR REFER TO ATOMIC MUMBER (TOTAL NUMBER 375 61-22 DO YOU USE OR REFER TO VALENCE ELECTRONS (THOSE IN PARTICULAR SHELL OR ORBIT
373 61-20 DO YOU USE OR REFER TO PERMISSIBLE ENERGY LEVELS OF AN ORBITING ELECTRON
374 61-21 DO YOU USE OR REFER TO FORBIDDEN ENERGY LEVELS OF ORBITING ELECTRON 6 361 61-08 DO YOU USE OR REFER TO THE GENERAL RULE THAT
TEMPERATURE CAN AFFECT THE OPERATION OF DIODES
6 362 61-09 O YOU IDENTIFY SEMICONDUCTOR DIODES AS OPPOSED TO
THEM ELECTRONIC COMPONENTS, SUCH AS RESISTORS, BASED 6 372 61-19 DO YOU USE OR REFER TO NUMBER OF ELECTRONS IN A 345 61-12 DO YOU USE OR REFER TO DIODE COLOR CODING 364 61-13 DO YOU USE OR REFER TO CENTRIFUGAL FORCE OF AN RULE THAT 6 370 GI-17 DO YOU USE OR REFER TO POTENTIAL ENERGY OF ELECTRON MOVING IN ORBIT JACREASES RESISTANCE DECREASES)
JBO 41-27 DO YOU USE OR REFER TO PM JUNCTION DIODE PCT MBRS RESPONDING .YES' BY SELECTED GRPS PERCENT MEMBERS PERFURNING ELECTRONS IN ATOM! GROUP SUMMARY RESISTANCE RESISTANCE 6 365 61-12 00 91-19 696 9 6 382

ě

BY SELECTED GRPS PCT HBRS RESPONDING .YES.

いるとあるとことというという

1

TRANSISTORS E 3 3 000 000 SPC 236 100 100 100 00 100 8 100 88 100 100 8 100 100 00 801 0 100 0 00 100 235 235 o 0 0 0 0 0 0 0 0 0 54 0 234 28 = = = 5PC 233 0 0 0 0 0 000 0 0 0 22000 0 0 0 0 20 0 0 0 5°C a a a a 20000 0 a 20 a a 0 0 0 9 9 0 0 5 PC 2 ~ 22 5°C 0 0 d 0 0 a 77 2 • GPSH4C PAGE 5 PC = 202 22 17 = 5PC 0 S s s 0 20 2 227 0 0 15 0 0 0 23 0 00 . 33 ~ 52 7 G 400 GI-47 DO YOU USE OR REFER TO MAXIMUM AVERAGE FORWARD.
CURRENT DIODE NATINGS
G 401 GI-48 DO YOU USE OR REFER TO PEAK RECURRENT FORWARD CURRENT TOU USE OR REPER TO PEAK REVERSE (INVERSE) VOLTAGE MATERIAL CHECK TRANSISTORS USING AN INSTRUMENT
USE OR REFER TO EMITTER - BASE (EB) FORWARD
RESISTANCE MEASUREMENTS
USE OR REFER TO COLLECTOR - BASE (CB) FORWARD
RESISTANCE MEASUREMENTS 384 61-33 DO YOU USE OR REFER TO ELECTRON-HOLE PAIR CREATED IN Z SEMICONDUCTORS
61-43 DO TOU USE OR REFER TO RELATIONSHIP BETWEEN BARRIER
WIDTH AND DIFFERENCE OF POTENTIAL 61-49 DO YOU USE OR REFER TO MAXIMUM SURGE CURRENT DIDDE 61-34 DO YOU USE OR REFER TO ELECTRON FLOW OR HOLE FLOW ODE RATINGS -01 DO TOU MORK WITH TRANSISTORS IN YOUR PRESENT JOB. 61-41 DO YOU USE OR REFER TO JUNCTION RECOMBINATION IN GI-44 DO YOU USE OF REFER TO THE 10:1 BACK TO FRONT RESISTANCE RATIO FOR DIODES P-TYPE SEMICONDUCTOR N-TYPE SEMICONDUCTOR HAJORITY CARRIERS IN 61-36 DO YOU USE OR REFER TO ACCEPTOR IMPUNITY IN 61-40 DO YOU USE OR REFER TO MINORITY CARRIERS IN -32 DO YOU USE OR REFER TO COVALENT BONDING IN EMICONDUCTOR HATERIALS 61-42 00 YOU USE OR REFER TO DEPLETION REGION IN GI-30 DO YOU USE OR REFER TO FORBIDDEN BAND IN SEMICONDUCTOR MATERIALS GI-31 DO YOU USE OR REFER TO CONDUCTION BAND IN SEMICONDUCTOR MATERIALS 6 399 61-46 DO YOU USE OR REFER TO DIODE SUBSTITUTION 61-35 DO YOU USE OF REFER TO DONOR IMPURITY IN 6 398 61-45 DO YOU USE OR REFER TO BARRIER HEIGHT IN OR REPLACE TRANSISTORS TRANSISTORS 20 2 REFER REFER PERCENT NEMBERS PERFORMING TOU INSPECT . . . REHOVE 1-37 DO YOU USE DO YOU USE SENICONDUCTORS SENICONDUCTORS SENICONDUCTORS SENICONDUCTORS EMICONDUCTORS EMICONDUCTORS SEMICONDUCTORS DIODE RATINGS INFORMATION ND REVERSE 00 05-19 61-39 61-37 62-02 62-03 62-03 62-04 405 390 6 393 9 195 347 403 6 383 6 387 6 386 6 386 9 394 992 392 966 9 405 404 404 401

REVERSE

62-04

•0

8

-

:

09

30

30

.

3.9

2

0

1

× AMPLIFIERS TRANSISTOR 88888 8888 236 100 00 901 001 100 00 100 00 000 00 00 0 5 PC Ŧ 7 7 35 . 12 * 35 5PC * 17 39 22 9 -= -22 233 9 0 0 9 0 20 20 0 0 20 c. 000 5Pc d 30 a 0 0 90 20 20 30 9 d gogogd 20 222222 231 22 S -= * 23 5PC 0 0 dododd 2 -200 • 7 7577577 SPSM4C PAGE 229 0 22 -51 53 = 22 . 2 === 5PC 228 = -= • 9 5 18 26 7 53 7 5PC 227 + . 24 2 : 2 31 = 45 5PC 3 3 1 13 17 0000 5 17 DO YOU USE THE INFORMATION THAT THE EFFECT OF EMITTER VOLTAGE ON DASE CURRENT IS THE CONTROLLING FACTOR FOR SMALLER THAN THE EMITTER CURRENT IE IUSUALLY IB BEING 2 TO I 420 62-17 DO YOU USE THE GENERAL RULE THAT LEAKAGE CURRENT (ICBO) IN A TRANSISTOR INCREASES AS TEMPERATURE INCREASES 421 62-18 DO YOU USE OR REFER TO TRANSISTOR CHARACTERISTIC USE OR REFER TO TRANSISTOR SCHEMATIC SYMBOLS USE OR REFER TO TRANSISTOR NOTATION SUCH AS G 410 G2-07 00 YOU USE OR REFER TO EMITTER - COLLECTON (EC)
RESISTANCE MEASUREMENTS
G 411 G2-09 DO YOU USE OR REFER TO HOW BLASING AFFECTS THE
PHYSICAL BARRIER WIDTH OF THE EMITTER - BASE JUNCTION
G 412 G2-07 DO YOU USE OR REFER TO HOW BLASING AFFECTS THE
PHYSICAL BARRIER WIDTH OF THE COLLECTOR - BASE JUNCTION
G 413 G2-10 DO YOU USE OR REFER TO THE PHYSICAL SIZE OF THE
TRANSISTOR STRUCTURE (COLLECTOR, BASE AND EMITTER) 13-09 DO YOU TROUBLESHOOT TO THE AMPLIFIER CIRCUIT LEVEL
13-05 DO YOU TROUBLESHOOT TO AMPLIFIER COMPONENTS
13-05 DO YOU REMOVE OR REPLACE THE COMPLETE AMPLIFIER
13-07 DO YOU WENOVE OR REPLACE AMPLIFIER COMPONENTS
13-08 DO YOU USE OR REPER TO ICOMMON EMITTER) THE LANGE
COLLECTOR CURRENT WHICH RESULTS FROM A CHANGE IN BASE 414 62-11 DO YOU USE OR REFER TO LEAKAGE CURRENT (1CBO) IN 418 62-15 DO YOU USE OR REFER TO THE GENERAL RULE THAT THE PRANSISTOR BASE CURRENT IB IS NORMALLY SIGNIFICANTLY USE OR REFER TO BETA TRANSISTOR GAINS
USE OR REFER TO ALPHA TRANSISTOR GAINS
USE OR REFER TO GAMMA TRANSISTOR GAINS
CALCULATE ALPHA TRANSISTOR GAINS
CALCULATE GAMMA TRANSISTOR GAINS
UNDER WITH TRANSISTOR GAINS OR REFER TO TRANSISTOR SUBSTITUTION INSPECT TRANSISTOR AMPLIFIERS ALIGN OR ADJUST TRANSISTOR AMPLIFIERS PERCENT MEMBERS PERFORMING YOU USE USE GROUP SUNHARY PERCENT OF 100 415 62-12 DO YOU 414 62-13 DO YOU 100 414 62-16 DO YOU 200 400 400 YOU TRANSISTOR 417 62-14 00 00 PRESENT CURVES 63-01 422 62-19 63-02 63-03 63-05 63-07 63-08 62-22 425 225 134 433

3

00

0

0

0

CALCULATIONS NECESSARY TO MEASURE THE SPECIFIC CHANGE IN COLLECTOR CURRENT WHICH RESULTS FROM A SPECIFIC CHANGE IN

BASE CURRENT

63-09 DO YOU USE OR REFER TO ICOMMON EMITTER, THE

5 P C o . a • 5Pc o • -. 3. 5 P.C • ^ • = 2 2 8 ~ = . 1 1 Z G3-20 DC 70U CALCULATE THE VOLTAGE GAIN FOR SPECIFIC TRAN-SISTORS USING A FORMULA THAT IS, DO YOU DIVIDE THE CHANGE IN BASE ENITTER VOLTAGE INTO THE CHANGE THE BASE COLLECTOR VOLTAGE TO DETERMINE THE VOLTAGE GAIN G3-21 DO YOU CALCULATE THE CURRENT GAIN FOR SPECIFIC TRANSISTORS USING A FORMULA THAT IS, DO YOU DIVIDE THE CHANGE IN BASE CURRENT INTO THE CHANGE IN COLLECTOR 63-12 DO YOU USE OF REFER TO (COMMON ENITTER) THE CHANGE IN THE TRANSISTOR)
THE TRANSISTOR
TRANSISTOR AT DIFFERENT TENERATURE POINT EQ. OF A
TRANSISTOR AT DIFFERENT TENERATURES

4 952 43-25 DO YOU IDENTIFY ON SCHEMATIC DIAGRAMS AND RELATE TO
THE ACTUAL CIRCUITRY THE COMPONENTS ASSOCIATED WITH
ENTITER (SWAMPING) RESISTOR STABILIZATION
4 953 453 453-24 DO YOU IDENTIFY ON SCHEMATIC DIAGRAMS AND RELATE TO
BIAS STABILIZATION CALCULATIONS NECESSARY TO MEASURE THE SPECIFIC CHANGE IN GENERATED MITH LESS COLLECTOR VOLTAGE AS TEMPERATURE INCREASES (THIS AFFECTS THE STATIC OPERATING POINT EQ.3 OF CALCULATIONS NECESSARY TO MEASURE THE SPECIFIC CHANGE IN BASE CURRENT WHICH RESULTS FROM A SPECIFIC INPUT SIGNAL 3-14 DO YOU USE THE LOAD-LINE NETHOD OF ANALYSIS IN YOUR CIRCUIT ANALYSIS (THIS METHOD REQUIRES YOU TO PLOT A CHANGE 63-23 00 YOU MEED TO KNOW THAT MORE COLLECTOR CURRENT IS CURRENT TO DETERMINE THE CURRENT GAIN
63-22 DO TOU CALCULATE THE POWER GAIN FOR A SPECIFIC
TRANSISTOR USING A FORMULA THAT IS, DO YOU MULTIPLY THE
CURRENT GAIN TIMES THE VOLTAGE GAIN TO DETERMINE THE GA-16 DO YOU CALCULATE THE SPECIFIC QUIESCENT POINT FOR BASE 6 444 63-17 DO YOU MEASURE VOLTAGE GAIN USED IN THE COMMON EMITTER CONFIGURATION G. 445 63-16 DO YOU MEASURE CURRENT GAIN USED IN THE COMMON CONFIGURATION
FOU MEASURE POWER GAIN USED IN THE COMMON
CONFIGURATION COAD-LINE ON A TRANSISTOR CHARACTERISTIC CURVE.) 3-10 DO YOU USE OR REFER TO (COMMON EMITTER) THE COLLECTOR VOLTAGE WHICH RESULTS FROM A CHANGE IN BASE CURRENT WHICH RESULTS FROM AN INPUT SIGNAL 63-13 DO YOU USE OR REFER TO ICOMMON EMITTER! THE 63-11 DO YOU USE ON REFER TO ICOMMON ENITTER, THE DY-15K PARTICULAR TRANSISTOR TASK GROUP SUMMANY PERCENT NEMBERS PERFORMING BASE CURRENT 446 63-19 DO 447 63-20 00 EMITTE 0 + + 6 439 -8 . . • 6 437 6 438

SPSH4C PAGE

The state of the s

SPSH4C PAGE 18

TASK GROUP SUMMARY PERCENT MEMBERS PERFORMING

	07-TSK	256	227	25°C	226	230	2 2	29°C	233	234	235 235	236	
\$5	63-27 DO YOU IDENTIFY ON SCHEMATIC DIA	11	15	5	~	19	2	20	0	•	0	100	
	THE ACTUAL CIRCUITRY THE COMPONENTS ASSOCIATED THERMISTOR STARILIZATION												
455	•	25	23	-	13	25	v	0.0	0	=	•	001	
	FORWARD BIAS DIODE STABILIZATION												
9	•	8	2	=	2	57	•	9	0	=	•	8	2
45.7	63-30 DO YOU IDENTIFY ON SCHEMATIC DISCRAMS AND RELATE TO	12	2.3	2	=	25	4	30	0	•	0	100	
	THE ACTUAL CIRCUITRY THE COMPONENTS ASSOCIATED WITH			:	:			2	,				
45	GOUBLE DIODE STABILIZATION 63-31 DO YOU TROUBLESHOOT CIRCUITS WHICH HAVE COMPONENTS	1.7	7	31	9	ĩ	•	30	70	•	0	001	
									:				
12	MATCH PERFORM AFLESHAD CIRCUITS MAICH HAVE COMPONENTS	7	2	•	2	5	•	9	70	•	3	200	-
460	63-33 DO YOU TROUBLESHOOT	17	15	8	=	25	=	20	20	•	0	100	
	WHICH PERFORM THERMISTOR STABILIZATION	•							1	:		1	
•	WHICH PERSONN SONNERS DIES DIONE STABILIZATION	62	5	9	•	•	=	9	20	=	•	100	•
462	•	52	3	20	•	1,	11	30	20	=	•	001	•
		:	:	:	:		•				•	•	
2	WHICH PERFORM DOUBLE DIODE STABILIZATION		3	-	2	4	•	9	2	•	>	001	
.0.		12	31	50	20	19	•	9	02	=	•	001	
44		:	,	•	:	,	:	,	•	•	•	2	
•							1	?	:	•			
:		17	-	=	•	25	=	20	20	•	0	100	
		•							,		•	•	
19.	CIRCUITS	•	2	=	•	•	=	07	2	•	0	201	•
4.8	•	•	23	15	2	•	-	20	0	•	0	100	•
1	CAUSES OF PHASE DISTORTION		,										
404	CALLY DO TOU TROUBLESHOOT TRANSISTOR CIRCUITS TO FIND THE	42	5	•	2	52	=	70	32	•	0	00	-
470		•	•	-	•	•	•	20	20	•	0	001	
	CIRCUIT CAUSED BY CHANGING ENITTER RESISTANCE FOR												
	CONFIGURATION												
471	63-44 DO YOU DETERNINE THE CLASS OF OPERATION FOR	•	2	=	•	-	۵	12	0	•	0	100	-
472		1.1	31	•	-	•	=	-	20	0	0	0	
473	63-96 DO TOU TROUBLESHOOT OR REPAIR PUSH-PULL AMPL	42	3.6	23	•	3.6	-	•	0.2	•	0	100	
•	63-47 DO YOU TROUBLESHOOT OR REPAIR COMPLEMENT	52	7	=	•	25	=	33	0	•	0	001	8
475	CIRCUITS 63-48 DO YOU TROUBLESHOOT OR REPAIR COMPOUND-CONNECTED	25	15	*	•	•	=	20	0	=	•	100	
1													

			SPC	SPC	SPC						29.5	SPC	
	and the second of the second o	DY-15K	\$28	227	328	229	230 231	1 232	2 233	234	235	236	
6 476	63-49 DO YOU AMPLIFIERS	UBLESHOOT OR	33	7	17	•	38	a. 1.1	20	=	•	100	
1	HI-01 DO YOU	OR REFER TO	17	23	23	**	19	9 2		•	0		
1 478	HI-02 DO YOU	OR REFER TO	11	0	12	22	6	4 3	0	9	0	001	SOLID-STATE
H 474	H1-03 DO YOU	OR REFER TO	20	31	4.3	0,	50 3		0	17	12	100	SPECIAL PURPOSE
100	NO -04 00 YOU	OR REFER TO UNIJUNCTION	4.5	23	48	*		35 6			0	100	DEVICES
107	H1-05 D0	OR REFER TO ZENER	69	•	95	79					35	100	
	H1-04 DO	GRATED CIRCUITS	75	6,9	•		63				53	1 00	
I 483	H2-01 1N	DO YOU W	75	9.2	72	7.3				:	*	100	
18+ I	H2-02 DO	£ 5	75	8 5	62	09					7.	100	
1 485	H2-03 DO YOU		20	24	33	30		32 1		2	5	0	
987 I	H2-04 00 100	R SUPPLIES	75	85	43	45						100	
	H2-05 DO YOU	TO POWER SUPPLY	2.8	77	15	•				•	7.1	0	POLITE CITED
	HZ-06 00 YOU	ESHOOT TO POWER SUPPLY COMPONENTS	•	:		;		_				0	OMER SUPPLIES
T :	20 40 40 40 40 40 40 40 40 40 40 40 40 40	METAL ON A SEPTEMBER OF STREET STREET STREET	19			29	9		9	:		0	
	H2-09 DO YOU	THE MALE - WAVE RECTUES AND	20	;		, ,						100	
1 492	H2-10 00 YOU	WITH FULL - WAVE RE	50	:			0	36 70			35	100	
	BRIDGE RECTI												
T .	H2-11 DO 100	BRIDGE RECTIFIERS	20		0	- 5		•	0		56	00-	
	13-11 00 400	100	7.	200		2	90	,					
	H2-14 DO	Dawn of same so			7 7	T 7	9 0	70				000	
	H2-15 00 YOU	OR BEST TO PEAK OUTP	85			0		-	1		3	00	
	H2-16 DO YOU	OR REFER TO AVERAGE OUT			*	7			50		•	001	
	H2-17 DO YOU	OR REFER TO RIPPLE AMPLITUDE	2.0	95	;	:		s		;		100	
005 H	HZ-18 DO YOU	OR REFER TO RIPPLE FREQUENCY	20	:	38	45	25 3	~	07 0		35	001	
H 501	H2-19 DO YOU	OR REFER TO PEAK REVERSE (I)	52	23	33	•	•			•	35	001	
H 502	HZ-20 00 400	OR REFER TO SHAPE	28	24	*	41	8			-	=	20	
203	3 HZ-Z1 DO YOU USE	IN REFER TO EFFEC	2 5	79		::	30	30 50	202		35	000	
	FILTERS		2		•	2				:		3	
4 505	H2-23 DO	TOU MORK WITH CIRCUITS WHICH EMPLOY INDUCTIVE	20	:	:	:	96	2	0 20	•	35	100	
H 504	I	K WITH CIRCUITS WHICH EMPLOY CAPACITIVE	80	;	43	•	\$ 52	-	02 0	=	•	100	
H 507	7 H2-25 DO TOU WORK WITH	L'ERS IR WITH CIRCUITS WHICH EMPLOT INDUCTIVE	90	;	;	•	31	43 50	02 0	=	•	100	
1 209	8 42-24 DO YOU WORK WITH	K WITH CIRCUITS WHICH EMPLOY LC PI-TYPE	45	38	?		25	43 40	20	-	15	00	
405 H	H2-27 DO	YOU WORK WITH CIRCUITS BHICH EMPLOY RC PILTYPE	*	•	?	6	25 4	3	0 50	=	13	0	
H 510		HZ-Z6 DO YOU MORK WITH CIRCUITS WHICH EMPLOY DON'T	33	-	52	2.4	25 2	22 2	0 20	28	50	٥	
			۰	•							77	0	
	FILTER BITH A DIFFERENT TYPE FILT	TOTAL DELLE TOTAL PROPERTY OF THE PARTY OF T											

TASK GROUP SUMMANY PERCENT MEMBERS PERFORMING

11 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1		0 V-TSK	25¢	227	228	229	2.30	231 2	232 2	233 234	4 235	236	
1.00 1.00	3 43-02 00	INSPECT	33	23	38	38	38	35	-				
Name	H3-03 DO	ALIGN OR ADJUST OSCILLATORS	33	23	36	0.	3,1		0				OSCILLATORS
	H3-04 DO	REMOVE OR REPLACE COMPLETE OF	45	23	ī	38	20		0,				
143-00 1	H3-05 00	REMOVE OR REPLACE OSCILLATOR	-2	•	30	58	3,1		0,				
14-20 10 10 10 10 10 11 11	H3-04 DO	TROUBLESHOOT TO OSCILLATOR CIRCUIT	52	23	36	33	:		20				
1970 1970	H3-07 DO	TROUBLESHOOT TO OSCILLATOR COMPONE	11		30	52	31		0				
10.00 USE ON REFER TO FREQUENCY DETERMINING DEVICES 6 34 34 34 36 30 40 20 22 10 10 10 10 10 10 10 10 10 10 10 10 10	H3-08 DO	USE OR REFER TO FEFDBACK	•	•	36	36	3,		20				
100 100	H3-09 00	USE OR REFER TO FREQUENCY DETERMINING	•	•	36	3.6	38		0				
## 15 00 100 105 C	(600)		•	•		:	1						
10 10 10 10 10 10 10 10	000	USE UN REFER TO AMPLITUDE S	•	•	•	?	-	12	0				
Hall 2	13-11 DO	USE ON REFER TO FREQUENCY S	0	2	=	7	18	77	9				-
13-15 00 00 00 00 00 00 00	H3-12 00	USE OR REFER TO DAMPING	-	•	52	27	•	•	0.				
H3-19 DO TOU USE ON REFER TO PRIZICATION EFFECT 6 6 6 16 18 13 14 20 0 1 1 6 100 14 14 15 10 100 15 10 100 15 10 100 15 10 100 15 10 100 15 10 100 15 10 100 15 10 100 15 10 100 15 10 100 15 10 100 15 10 100 15 10 100 15 10 100 15 10 100 15 10 100 15 10 15 10 10 10 10 10 10 10 10 10 10 10 10 10	43-13 DO	USE ON REFER TO REGENERATIVE	•		36	*	38	2	9	-			
13 13 13 13 13 14 15 15 15 15 15 15 15	H3-14 00	USE OR REFER TO PIEZOELECTRIC	•	•	•	•	-3	*	0		_	100	
13 10 10 10 10 10 10 10	H3-15 DO	USE OR REFER TO CRITICAL	•	•	•	•	13	=	20	0	•	0	
Halio Do Tou USE, OR REFER TO OVER DAMPING	H3-16 DO	USE OR REFER TO UNDER DAM	•	•	•		-	=	20	0	•	0	
H3-19 DO YOU WORK WITH OSCILLATORS WHICH USE CKYSTALS AS 15 39 40 38 35 50 20 22 18 100 H3-19 DO YOU WORK WITH OSCILLATORS WHICH USE CRYSTALS AS 17 23 44 47 34 41 50 20 39 35 100 H3-20 DO YOU WORK WITH OSCILLATORS WHICH USE CRYSTALS AS 17 23 44 47 34 41 50 20 39 35 100 H3-21 DO YOU WORK WITH OSCILLATORS WHICH USE DON'T REMEMBER 8 0 13 11 19 6 20 20 4 0 100 H3-21 DO YOU WORK WITH OSCILLATORS WHICH USE DON'T REMEMBER 8 0 13 11 19 6 20 20 4 0 100 H3-22 DO YOU WORK WITH SEMISES HARTEY SINUSOLDAL OSCILLATORS 25 8 21 27 11 19 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	H3-17 DO	USE OR REFER TO OVER DAMPI	•	•	9-1	•	-	=	20	0	•	0	
CHROUTS AS POP 13 19 00 TOU WORK WITH OSCILLATORS WHICH USE CRYSTALS AS 17 23 44 47 3A 41 50 20 20 20 20 100 100 100 WORK WITH OSCILLATORS WHICH USE CRYSTALS AS 17 23 44 47 3A 41 50 20 39 35 100 100 WORK WITH OSCILLATORS WHICH USE CONTINUED TO 17 20 10 10 10 10 10 10 10 10 10 10 10 10 10	H3-18 DO	WORK WITH OSCILLATORS WHICH USE LC	17	15	34	*	31	27	0		-	-	
### ### ### ### ### ### ### ### ### ##		700											
### ### ### ### ### ### ### ### ### ##	H3-19 DO	WORK WITH OSCILLATORS AHICH USE RC NETWORKS	52	15	39	•	38	35			~	-	
### 19-20 DO YOU WORK WITH OSCILLATORS WHICH USE CRYSTALS AS 17 23 44 47 3A 41 50 20 39 35 100 WINDER WITH OSCILLATORS WHICH USE DON'T REMEMBER 6 0 13 11 19 6 20 20 6 0 0 100 WINDER WITH SERIES MARTLEY SINUSOIDAL COCILLATORS 25 8 20 20 19 14 20 20 6 0 100 WINDER WITH SERIES MARTLEY SINUSOIDAL OSCILLATORS 25 8 21 27 19 16 20 6 0 100 WINDER WITH CLAPP SINUSOIDAL OSCILLATORS 25 8 21 27 19 16 20 6 0 100 WINDER WITH CLAPP SINUSOIDAL OSCILLATORS 25 8 21 27 19 16 20 6 0 100 WINDER WITH CLAPP SINUSOIDAL OSCILLATORS 25 8 21 27 19 16 20 6 0 100 WINDER WITH CLAPP SINUSOIDAL OSCILLATORS 25 8 21 27 19 16 20 6 0 100 WINDER WITH CLAPP SINUSOIDAL OSCILLATORS 25 8 21 27 19 16 20 6 0 100 WINDER WITH CLAPP SINUSOIDAL OSCILLATORS 25 8 21 27 19 16 20 6 0 100 WINDER WITH CLAPP SINUSOIDAL OSCILLATORS 25 8 21 27 19 16 20 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0		Company of the Compan						-					
POD TOU WORK WITH OSCILLATORS WHICH USE DON'T REMEMBER 8 0 13 11 19 6 20 20 6 6 0 0 100-10-10-10-10-10-10-10-10-10-10-10-10-		OSCILLATORS WHICH USE CRYST	-1	23	*	*		-	20		•	-	
## ## ## ## ## ## ## ## ## ## ## ## ##		THE PARTY OF THE P					-	-		-			
### ### ### ### ### ### ### ### ### ##		OSCILLATORS WHICH USE DON'T	•	0	-	=	•-	•	20	02	•	0	
M3-22 DO VOU WORK WITH SERIES HARTLEY SINUSCIDAL OSCILLATORS 25 8 20 20 19 14 20 20 6 0 100 05CILLATORS 43-23 DO VOU WORK WITH SHUNT HARTLEY SINUSCIDAL OSCILLATORS 25 8 21 27 19 16 20 6 0 100 05CILLATORS 17 8 113 18 0 14 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0			-	-	-	The Parket of the Parket		-	-				
0SCILLATORS 0SCILLATORS 13		SERIES HARTLET S	52	•	20	20	6 1	<u>-</u>	20	02	•	100	
### 19-23 DO YOU WORK WITH SHUND HARTLEY SINUSOIDAL OSCILLATORS 25 8 21 22 19 16 20 20 6 0 100 miles with Colpies Sinusoidal OSCILLATORS 25 8 21 29 19 10 20 6 0 100 miles with Colpies Sinusoidal OSCILLATORS 17 8 13 10 0 11 0 0 0 0 0 0 0 0 0 0 0 0 0 0				-	-								
H3-24 DO YOU MORK WITH COLPITES SINUSOIDAL OSCILLATORS H3-25 DO YOU WORK WITH CLAFF SINUSOIDAL OSCILLATORS H3-25 DO YOU WORK WITH CLAFF SINUSOIDAL OSCILLATORS H3-26 DO YOU WORK WITH CLAFF SINUSOIDAL OSCILLATORS H3-27 DO YOU WORK WITH DON'T REMEMBER WHICH TIPE OF 05CILLATORS 05CILLATORS 05CILLATORS 05CILLATORS 11-02 DO YOU WORK WITH WOLTTVIBRATORS IN YOUR PRESENT JOB 05CILLATORS 11-02 DO YOU WORK WITH WOLTTVIBRATORS IN YOUR PRESENT JOB 05CILLATORS 11-02 DO YOU WORK WITH WOLTTVIBRATORS IN YOUR PRESENT JOB 11-02 DO YOU WORK WITH WOLTTVIBRATORS IN YOUR PRESENT JOB 11-03 DO YOU MORE GENERATING OR SHAPING CIRCUITS 11-03 DO YOU MORE GENERATING OR SHAPING CIRCUITS 11-04 DO YOU TROUBLESHOOT TO WAVE GENERATING OR SHAPING 11-05 DO YOU TROUBLESHOOT TO WAVE GENERATING OR SHAPING 11-05 DO YOU TROUBLESHOOT TO WAVE GENERATING OR SHAPING 11-05 DO YOU TROUBLESHOOT TO WAVE GENERATING OR SHAPING 11-06 DO YOU TROUBLESHOOT TO WAVE GENERATING OR SHAPING 11-07 DO YOU TROUBLESHOOT TO WAVE GENERATING OR SHAPING 11-08 DO YOU TROUBLESHOOT TO WAVE GENERATING OR SHAPING 11-08 DO YOU TROUBLESHOOT TO WAVE GENERATING OR SHAPING 11-08 DO YOU TROUBLESHOOT TO WAVE GENERATING OR SHAPING 11-08 DO YOU TROUBLESHOOT TO WAVE GENERATING OR SHAPING 11-08 DO YOU TROUBLESHOOT TO WAVE GENERATING OR SHAPING 11-08 DO YOU TROUBLESHOOT TO WAVE GENERATING OR SHAPING 11-08 DO YOU TROUBLESHOOT TO WAVE GENERATING OR SHAPING 11-08 DO YOU TROUBLESHOOT TO WAVE GENERATING OR SHAPING 11-08 DO YOU TROUBLESHOOT TO WAVE GENERATING OR SHAPING 11-08 DO YOU TROUBLESHOOT TO WAVE GENERATING OR SHAPING 11-09 DO YOU TROUBLESHOOT TO WAVE GENERATING OR SHAPING 11-09 DO YOU TROUBLESHOOT TO WAVE GENERATING OR SHAPING 11-09 DO YOU TROUBLESHOOT TO WAVE GENERATING OR SHAPING 11-09 DO YOU TROUBLESHOOT TO WAVE GENERATING OR SHAPING 11-09 DO YOU TROUBLESHOOT TO WAVE GENERATING OR SHAPING 11-09 DO YOU TROUBLESHOOT TO WAVE GENERATING OR SHAPING 11-09 DO YOU TROUBLESHOOT TO WAVE GENERATING OR SHAPING 11-09 DO YOU TROUBLESHOOT TO WAVE GENERATING OR SHAPI		WORK WITH SHUNT HARTLEY SINUSOIDAL	52	•	7	22	•	•				-	
Hard	H3-24 DO	WORK WITH COLPITTS SINUSOIDAL OSCIL	52	•	7	5.0	13	•		i	1	-	-
H3-24 DO YOU WORK WITH BUTLER SINUSGIDAL OSCILLATORS H3-27 DO YOU WORK WITH BUN'T REMEMBER WHICH TIPE OF H3-27 DO YOU WORK WITH BON'T REMEMBER WHICH TIPE OF H3-27 DO YOU WORK WITH BON'T REMEMBER WHICH TIPE OF H3-27 DO YOU WORK WITH HULTIVIBRATORS IN YOUR PRESENT JOB 11-02 DO YOU WORK WITH HULTIVIBRATORS IN YOUR PRESENT JOB 11-03 DO YOU WORK WITH HULTIVIBRATORS IN YOUR PRESENT JOB 11-03 DO YOU LIGHTON AND GENERATING OR SHAPING CIRCUITS 11-03 DO YOU CALIBRATE WAVE GENERATING OR SHAPING CIRCUITS 11-04 DO YOU CALIBRATE WAVE GENERATING OR SHAPING 11-05 DO YOU TROUBLESHOOT TO WAVE GENERATING OR SHAPING 11-05 DO YOU TROUBLESHOOT TO WAVE GENERATING OR SHAPING 11-05 DO YOU TROUBLESHOOT TO WAVE GENERATING OR SHAPING 11-05 DO YOU TROUBLESHOOT TO WAVE GENERATING OR SHAPING 11-05 DO YOU TROUBLESHOOT TO WAVE GENERATING OR SHAPING 11-05 DO YOU TROUBLESHOOT TO WAVE GENERATING OR SHAPING 11-05 DO YOU TROUBLESHOOT TO WAVE GENERATING OR SHAPING 11-05 DO YOU REMOVE OR REPLACE WAVE GENERATING OR SHAPING 11-05 DO YOU REMOVE OR REPLACE WAVE GENERATING OR SHAPING 11-05 DO YOU REMOVE OR REPLACE WAVE GENERATING OR SHAPING 11-05 DO YOU REMOVE OR REPLACE WAVE GENERATING OR SHAPING 11-05 DO YOU REMOVE OR REPLACE WAVE GENERATING OR SHAPING 11-05 DO YOU REMOVE OR REPLACE WAVE GENERATING OR SHAPING 11-05 DO YOU REMOVE OR REPLACE WAVE GENERATING OR SHAPING 11-05 DO YOU REMOVE OR REPLACE WAVE GENERATING OR SHAPING 11-05 DO YOU REMOVE OR REPLACE WAVE GENERATING OR SHAPING 11-05 DO YOU REMOVE OR REPLACE WAVE GENERATING OR SHAPING 11-05 DO YOU REMOVE OR REPLACE WAVE GENERATING OR SHAPING 11-05 DO YOU REMOVE OR REPLACE WAVE GENERATING OR SHAPING 11-05 DO YOU REMOVE OR REPLACE WAVE GENERATING OR SHAPING 11-05 DO YOU REMOVE OR REPLACE WAVE GENERATING OR SHAPING 11-05 DO YOU REMOVE OR REPLACE WAVE GENERATING OR SHAPING 11-05 DO YOU REMOVE OR REPLACE WAVE GENERATING OR SHAPING 11-05 DO YOU REMOVE OR SHAPING 11-05 DO YOU REMO	H3-25 DO	WORK WITH CLAPP SINUSOICAL O	11	•	-	•	0	•	0				
05CILLATORS 05CILL	H3-2+ DO	WORK WITH BUTLER SINUSOIDAL	1.7	•	=	•	0	=	0				
05CILLATORS 05CILLATORS 11-02 DO YOU WORK WITH MULTIVIBRATORS IN YOUR PRESENT JOB 50 94 91 90 50 90 33 27 100 11-03 DO YOU MOSK WITH MULTIVIBRATORS IN YOUR PRESENT JOB 50 94 91 90 94 30 50 90 100 11-03 DO YOU MUSECT WAVE GENERATING OR SHAPING 50 31 25 20 34 10 90 10 22 18 100 CIRCUITS 11-04 DO YOU CALIBRATE WAVE GENERATING OR SHAPING 50 94 31 27 36 24 30 90 17 12 100 CIRCUITS 11-05 DO YOU TROUBLESHOOT TO MAVE GENERATING OR SHAPING 50 94 31 27 32 30 90 17 12 100 CIRCUITS 11-05 DO YOU TROUBLESHOOT TO MAVE GENERATING OR SHAPING 92 96 33 33 33 27 90 20 17 18 0 SHAPING CIRCUITS 11-07 DO YOU REPOVE OR REPLACE COMPLETE WAVE GENERATING OR SHAPING 72 94 33 33 33 27 90 20 17 18 0 SHAPING CIRCUITS COMPONENTS 11-08 DO YOU REPOVE OR REPLACE WAVE GENERATING OR SHAPING 72 94 28 27 31 22 30 20 17 18 0 SHAPING CIRCUITS COMPONENTS	H3-27 00	WORK WITH DON'T REMEMBER MM!	•	0	28	27	31	5.2	0				
11-01 DQ YOU WORK WITH MULTIVIBRATORS IN YOUR PRESENT JOB													
11-02 DO YOU INSPECT WAVE GENERATING OR SHAPING CIRCUITS	11-01 00	MORK WITH MULTIVIBRATORS IN YOUR PRESENT	20	;	F	•	:						
11-03 DO YOU ALIGN OR ADJUST WAVE GENERATING OR SHAPING 11-03 DO YOU ALIGN OR ADJUST WAVE GENERATING OR SHAPING CIRCUITS 11-04 DO YOU CALIBRATE WAVE GENERATING OR SHAPING CIRCUITS 11-05 DO YOU TROUBLESHOOT TO WAVE GENERATING OR SHAPING 11-05 DO YOU TROUBLESHOOT TO WAVE GENERATING OR SHAPING 11-05 DO YOU TROUBLESHOOT TO WAVE GENERATING OR SHAPING 11-05 DO YOU TROUBLESHOOT TO WAVE GENERATING OR SHAPING 11-05 DO YOU TROUBLESHOOT TO WAVE GENERATING OR SHAPING 11-06 DO YOU REMOVE OR REPLACE WAVE GENERATING OR SHAPING 11-08 DO YOU REMOVE OR REPLACE WAVE GENERATING OR SHAPING 11-08 DO YOU REMOVE OR REPLACE WAVE GENERATING OR SHAPING 12-08 DO YOU REMOVE OR REPLACE WAVE GENERATING OR SHAPING 12-08 DO YOU REMOVE OR REPLACE WAVE GENERATING OR SHAPING 12-08 DO YOU REMOVE OR REPLACE WAVE GENERATING OR SHAPING 12-08 DO YOU REMOVE OR REPLACE WAVE GENERATING OR SHAPING 12-08 DO YOU REMOVE OR REPLACE WAVE GENERATING OR SHAPING 12-08 DO YOU REMOVE OR REPLACE WAVE GENERATING OR SHAPING 12-08 DO YOU REMOVE OR REPLACE WAVE GENERATING OR SHAPING 12-08 DO YOU REMOVE OR REPLACE WAVE GENERATING OR SHAPING 12-08 DO YOU REMOVE OR REPLACE WAVE GENERATING OR SHAPING 12-08 DO YOU REMOVE OR REPLACE WAVE GENERATING OR SHAPING 12-08 DO YOU REMOVE OR REPLACE WAVE GENERATING OR SHAPING 12-08 DO YOU REMOVE OR REPLACE WAVE GENERATING OR SHAPING 12-08 DO YOU REMOVE OR REPLACE WAVE GENERATING OR SHAPING 12-08 DO YOU REMOVE OR REPLACE WAVE GENERATING OR SHAPING 12-08 DO YOU REMOVE OR SHAPING	11-02 00	INSPECT MAVE GENERATING OR SHAPING	4.5	=	7.0	23	31					100	
CIRCUITS 11-09 DO YOU CALIBRATE WAVE GENERATING OR SHAPING CIRCUITS 120 DO YOU CALIBRATE WAVE GENERATING OR SHAPING 11-05 DO YOU TROUBLESHOOT TO MAVE GENERATING OR SHAPING 11-06 DO YOU TROUBLESHOOT TO MAVE GENERATING OR SHAPING 11-07 DO YOU TROUBLESHOOT TO MAVE GENERATING OR STAPING 11-07 DO YOU TROUBLESHOOT TO MAVE GENERATING OR STAPING 11-07 DO YOU REPOVE OR REPLACE WAVE GENERATING OR STAPING 12 DO YOU REPOVE OR REPLACE WAVE GENERATING OR SHAPING 12 DO YOU REPOVE OR REPLACE WAVE GENERATING OR SHAPING 12 DO YOU REPOVE OR REPLACE WAVE GENERATING OR SHAPING 13 DO YOU REPLACE WAVE GENERATING OR SHAPING 14 DO YOU TROUBLESHOOT TO MAVE GENERATING OR SHAPING 15 DO YOU TROUBLESHOOT TO MAVE GENERATING OR SHAPING 16 DO YOU TROUBLESHOOT TO MAVE GENERATING OR SHAPING 17 DO YOU TROUBLESHOOT TO MAVE GENERATING OR SHAPING 18 DO YOU TROUBLESHOOT TO MAVE GENERATING OR SHAPING 19 DO YOU TROUBLESHOOT TO MAVE GENERATING OR SHAPING 10 DO YOU TROUBLESHOOT TO MAVE GENERATING OR SHAPING 10 DO YOU TROUBLESHOOT TO MAVE GENERATING OR SHAPING 11 DO YOU TROUBLESHOOT TO MAVE GENERATING OR SHAPING 12 DO YOU TROUBLESHOOT TO MAVE GENERATING OR SHAPING 11 DO YOU TROUBLESHOOT TO MAVE GENERATING OR SHAPING 12 DO YOU TROUBLESHOOT TO MAVE GENERATING OR SHAPING 12 DO YOU TROUBLESHOOT TO MAVE GENERATING OR SHAPING 13 DO YOU TROUBLESHOOT TO MAVE GENERATING OR SHAPING 14 DO YOU TROUBLESHOOT TO MAVE GENERATING OR SHAPING 15 DO YOU TROUBLESHOOT TO MAVE GENERATING OR SHAPING 16 DO YOU TROUBLESHOOT TO MAVE GENERATING OR SHAPING 17 DO YOU TROUBLESHOOT TO MAVE GENERATING OR SHAPING 18 DO YOU TROUBLESHOOT TO MAVE GENERATING OR SHAPING 19 DO YOU TROUBLESHOOT TO MAVE GENERATING OR SHAPING 19 DO YOU TROUBLESHOOT TO MAVE GENERATING OR SHAPING 19 DO YOU TROUBLESHOOT TO MAVE GENERATING OR SHAPING 19 DO YOU TROUBLESHOOT TO MAVE GENERATING OR SHAPING 19 DO YOU TROUBLESHOOT TO MAVE GENERATING OR SHAPING 19 DO YOU TROUBLESHOOT TO MAVE GENERATING OR SHAPING 19 DO YOU TROUBLESHOOT TO MAVE GENERATING OR SHAPING 19 DO YOU TROUBLESHOOT		ALIGN OR ADJUST WAVE GENERATING OR	80	=	25	20	3,6	•-				100	LTIVIBRATORS
11-09 00 YOU CALIBRATE WAVE GENERATING OR SHAPING CIRCUITS 25 15 21 20 25 16 30 20 11 6 1 11-05 00 YOU TROUBLESHOOT TO WAVE GENERATING OR SHAPING 50 96 31 29 38 29 30 90 17 12 1 11-06 00 YOU TROUBLESHOOT TO WAVE GENERATING OR SHAPING 92 96 20 27 31 22 30 20 17 12 1 11-06 00 YOU REHOVE OR REPLACE COMPLETE WAVE GENERATING OR 33 94 33 33 31 27 90 20 17 18 54 70 10 10 10 10 10 10 10 10 10 10 10 10 10	CIRCUITS												
11-05 DO YOU TROUBLESHOOT TO MAYE GEMERATING OR SHAPING SO 96 31 29 38 29 30 90 17 12 1 CIRCUITS CIRCUITS CONTOURLESHOOT TO MAYE GEMERATING OR SHAPING 92 96 28 27 31 22 30 20 17 12 1 CIRCUIT COMPONENTS CIRCUIT COMPONENTS CIRCUITS COMPONENTS CIRCUITS COMPONENTS CIRCUITS CIRCUITS COMPONENTS CIRCUITS CIRCUITS COMPONENTS CIRCUITS COMPONENTS CIRCUITS COMPONENTS CIRCUITS COMPONENTS CIRCUITS COMPONENTS COMPONENTS COMPONENTS COMPONENTS COMPONENTS CIRCUITS COMPONENTS COMPONENTS COMPONENTS COMPONENTS COMPONENTS CIRCUITS COMPONENTS CO		CALIBRATE WAVE GENERATING OR	52	1.5	17	20	25		30	1 02	-	100	
CIRCUITS 11-06 DO YOU TROUBLESHOOT TO MAVE GENERATING OR SHAPING CIRCUIT COMPONENTS SHAPING CIRCUITS 11-08 DO YOU REMOVE OR REPLACE WAVE GENERATING OR 33 46 33 33 31 27 40 20 17 18 SHAPING CIRCUITS COMPONENTS COMPONENTS		TROUBLESHOOT TO MAVE GENERAT	20	;	1	50	38		30	0	-	-	
11-06 DO YOU TROUBLESHOOT TO MAVE GENERATING OR SHAPING 42 46 26 27 31 22 30 20 17 12 1 CIRCUIT COMPONENTS 11-07 DO YOU REPOVE OR REPLACE COMPLETE WAVE GENERATING OR 33 46 33 33 31 27 40 20 17 18 SHAPING CIRCUITS 11-08 DO YOU REMOVE OR REPLACE WAVE GENERATING OR SHAPING 42 46 28 27 31 22 30 20 11 12 COMPONENTS 11-08 DO YOU REMOVE OR REPLACE WAVE GENERATING OR SHAPING 42 46 28 27 31 22 30 20 11 12 COMPONENTS 11-08 DO YOU REMOVE OR REPLACE WAVE GENERATING OR SHAPING 42 46 28 27 31 22 30 20 11 12 12 12 12 12 12 12			The same of the sa										
CIRCUIT COMPONENTS 11-07 DO TOU REMOVE OR REPLACE COMPLETE WAVE GENERATING OR 33 46 33 33 31 27 40 20 17 18 SHAPING CIRCUITS 11-08 DO TOU REMOVE OR REPLACE WAVE GENERATING OR SHAPING 42 46 28 27 31 22 30 20 11 12 COMPONENTS		RATING OR	45	•		27	7			1 02	000	-	
11-07 DO TOU REMOVE OR REPLACE COMPLETE WAVE GENERATING OR 33 96 33 33 31 27 90 20 17 18 SHAPING CIRCUITS 11-08 DO TOU REMOVE OR REPLACE WAVE GENERATING OR SHAPING 92 96 28 27 31 22 30 20 11 12 COMPONENTS			-										
SHAPING CIRCUITS 11-08 DO YOU REMOVE OR REPLACE MAVE GENERATING OR SHAPING 42 46 28 27 31 22 30 20 11 12 COMPONENTS	11-07 00	IE OR REPLACE COMPLETE WAVE GENERATING	2	:	23	2	3,1			02	7	0	
COMPONENTS													
NAME OF THE PROPERTY OF THE PR		OR REPLACE WAVE GENERATING OR	45	:	78	12	3,1	77	30	20	-	0	

GRPS	The second second second
SELECTED	The state of the s
A M	
. 7 65 .	
RESPONDING	The second second second
MBRS	
-	

SPSM4C PAGE 21

	HEMBERS PERFORMING
	Z
	=
	~
	C
	-
~	æ
-	3
=	-
I	S
3	Œ
S	-
•	=
5	w
0	I
GROUP	
9	=
	2
	-
A SK	FRCENT
-	-

-	DON1	17									670	and deliberation of the latest and
549 11-11 DO TOU WORK WITH HULTIVIBRATORS WHICH CON CRYSTALS 11-12 DO TOU WORK WITH HULTIVIBRATORS WHICH CON REMEMBER WHICH TYPE OF PDD 551 11-13 DO TOU WORK WITH HONOTABLE HULTIVIBRATORS 552 11-15 DO TOU WORK WITH HONOTABLE HULTIVIBRATORS 554 11-15 DO TOU WORK WITH HONOTABLE HULTIVIBRATORS 554 11-16 DO TOU WORK WITH DON'T REHEMBER WHICH TYPE 554 12-01 DO TOU WORK WITH CHINTERS OR CLAMPERS IN PRESENT JOB 555 12-02 DO TOU WORK WITH SHUNT DIODE LIMITERS 556 12-03 DO TOU WORK WITH SHUNT DIODE LIMITERS 557 12-05 DO TOU WORK WITH DON'T RNOW WHICH TYPE OF 562 12-09 DO TOU WORK WITH DON'T KNOW WHICH TYPE OF 563 12-09 DO TOU WORK WITH DON'T KNOW WHICH TYPE OF 564 12-10 DO TOU WORK WITH DON'T KNOW WHICH TYPE OF 564 12-10 DO TOU WORK WITH DON'T KNOW WHICH TYPE OF 565 12-09 DO TOU WORK WITH DON'T KNOW WHICH TYPE OF 566 12-09 DO TOU WORK WITH DON'T KNOW WHICH TYPE OF 567 12-09 DO TOU WORK WITH DON'T KNOW WHICH TYPE OF 568 13-01 IN YOUR PRESENT JOB. DO TOU WORK CLECTRON 568 13-01 DO TOU USE TUBE TESTERS TO CHECK ELECTRON 569 13-05 DO TOU USE SUBSTITUTION TO CHECK ELECTRON 571 13-07 DO TOU USE SUBSTITUTION TO CHECK ELECTRON 571 13-07 DO TOU USE SUBSTITUTION TO CHECK ELECTRON 571 13-07 DO TOU USE SUBSTITUTION TO CHECK ELECTRON 571 13-07 DO TOU USE SUBSTITUTION TO CHECK ELECTRON 571 13-07 DO TOU USE SUBSTITUTION TO CHECK ELECTRON 571 13-07 DO TOU USE SUBSTITUTION TO CHECK ELECTRON	1. MOD		36	30	3 19	, 24	30	20	1.1	13	100	
	T- NO		•	3.6 2		61	30	20	=	•	100	
REMEMBER WHICH TYPE OF FOD 11-13 DO YOU WORK WITH ASTABLE HULTIVIBRATORS 11-15 DO YOU WORK WITH BISNOSTBALE HULTIVIBRATORS 11-15 DO YOU WORK WITH BISNOSTBALE HULTIVIBRATORS 11-16 DO YOU WORK WITH DON'T REMEMBER WHICH TYPE 12-01 DO YOU WORK WITH SERIES DIODE LIMITERS 12-02 DO YOU WORK WITH SERIES DIODE LIMITERS 12-03 DO YOU WORK WITH SERIES DIODE LIMITERS 12-04 DO YOU WORK WITH TRANSISTOR LIMITERS 12-05 DO YOU WORK WITH TRANSISTOR LIMITERS 12-05 DO YOU WORK WITH DON'T KNOW WHICH TYPE OF 12-06 DO YOU WORK WITH DON'T KNOW WHICH TYPE OF 12-07 DO YOU WORK WITH DON'T KNOW WHICH TYPE OF 13-08 DO YOU WORK WITH DON'T KNOW WHICH TYPE OF CIRCUIT 13-09 DO YOU WORK WITH DON'T KNOW WHICH TYPE OF CIRCUIT 13-09 DO YOU WORK WITH DON'T KNOW WHICH TYPE OF CONTAINS ELECTRON TUBES 13-09 DO YOU USE COPES TO CHECK ELECTRON 13-05 DO YOU USE SCOPES TO PEAK INVERSE VOLTA		•		100	3 25	80	20	20	=	12	0	The same and the s
11-13 DO YOU WORK WITH ASTABLE HULTIVIBRATORS 11-15 DO YOU WORK WITH ASTABLE HULTIVIBRATORS 11-15 DO YOU WORK WITH BISTABLE HULTIVIBRATORS 11-16 DO YOU WORK WITH BISTABLE HULTIVIBRATORS 12-02 DO YOU WORK WITH LIMITERS OR CLAMPERS IN 12-03 DO YOU WORK WITH SENIES DIODE LIMITERS 12-04 DO YOU WORK WITH SENIES DIODE LIMITERS 12-04 DO YOU WORK WITH TRANSISTOR LIMITERS 12-05 DO YOU WORK WITH TRANSISTOR LIMITERS 12-05 DO YOU WORK WITH DON'T KNOW WHICH TYPE OF 12-05 DO YOU WORK WITH DON'T KNOW WHICH TYPE OF 12-05 DO YOU WORK WITH DON'T KNOW WHICH TYPE OF 12-05 DO YOU WORK WITH DON'T KNOW WHICH TYPE OF 13-05 DO YOU WORK WITH DON'T KNOW WHICH TYPE OF 13-05 DO YOU WORK WITH DON'T KNOW WHICH TYPE OF 13-05 DO YOU WORK WITH DON'T KNOW WHICH TYPE OF 13-05 DO YOU WORK WITH DON'T KNOW WHICH TYPE OF 13-05 DO YOU WORK WITH DON'T KNOW WHICH TYPE OF 13-05 DO YOU USE SCOPES TO CHECK ELECTRON 13-05 DO YOU USE SCOPES TO CHECK ELECTRON 13-05 DO YOU USE SCOPES TO CHECK ELECTRON 13-05 DO YOU USE SOR REFER TO CHECK ELECTRON 13-05 DO YOU USE OR REFER TO CHECK ELECTRON 13-05 DO YOU USE OR REFER TO PEAK INVERSE YOUTA												
			31					50	22	9	001	
11-15 DO YOU WORK WITH BISTABLE NULTIVIBRATORS 11-16 DO YOU WORK WITH DON'T REMEMBER WHICH TYPE 12-01 DO YOU WORK WITH DON'T REMEMBER WHICH TYPE 12-02 DO YOU WORK WITH SENER DIODE LIMITERS 12-03 DO YOU WORK WITH SENER DIODE LIMITERS 12-04 DO YOU WORK WITH SENER DIODE LIMITERS 12-05 DO YOU WORK WITH SENER DIODE LIMITERS 12-05 DO YOU WORK WITH SANISSTOR LIMITERS 12-05 DO YOU WORK WITH BASIC DIODE CLAMPING CIRCUITS 12-07 DO YOU WORK WITH BASIC DIODE CLAMPING CIRCUITS 12-09 DO YOU WORK WITH BASIC DIODE CLAMPING CIRCUITS 12-09 DO YOU WORK WITH DON'T KNOW WHICH TYPE OF 12-09 DO YOU WORK WITH DON'T KNOW WHICH TYPE OF 13-09 DO YOU WEESENT DOB'S TO CHECK ELECTRON 13-09 DO YOU USE TO ELECTRON TOBES TO CHECK ELECTRON 13-09 DO YOU USE SUBSTITUTION TO CHECK ELECTRON 13-09 DO YOU USE SUBSTITUTION TO CHECK ELECTRON 13-09 DO YOU USE SOFESTO PEAK INVERSE YOUTH								20	22	-	00	
11-14 DO YOU WORK WITH DON'T REHEMBER WHICH TYPE THULT VIRBAIDES 12-01 DO YOU WORK WITH LIMITERS OR CLAMPERS IN PRESENT JOB 12-02 DO YOU WORK WITH SERIES DIODE LIMITERS 12-03 DO YOU WORK WITH LIMITERS WITH SERIES 12-05 DO YOU WORK WITH TRANSISTOR LIMITERS 12-06 DO YOU WORK WITH TRANSISTOR LIMITERS 12-06 DO YOU WORK WITH DON'T KNOW WHICH TYPE OF 12-07 DO YOU WORK WITH DON'T KNOW WHICH TYPE OF 12-08 DO YOU WORK WITH DIODE CLAMPING CIRCUITS 12-09 DO YOU WORK WITH DIODE CLAMPING CIRCUITS 12-07 DO YOU WORK WITH DON'T KNOW WHICH TYPE OF CIRCUIT COMMINS ELECTRON TUBES 13-07 DO YOU USE SCOPES TO CHECK FLECTRON 13-05 DO YOU USE SCOPES TO CHECK FLECTRON 13-06 DO YOU USE OR REFER TO FEAK INVERSE VOLTA.		33	00	36 3	27 25	• 1	30	20	22	18	100	
12-01 DO YOU WORK WITH LIMITERS OR CLAMPERS IN PRESENT JOB 12-02 DO YOU WORK WITH SHUTT DIODE LIMITERS 12-03 DO YOU WORK WITH SHUTT DIODE LIMITERS 12-04 DO YOU WORK WITH TRANSISTOR LIMITERS 12-04 DO YOU WORK WITH TRANSISTOR LIMITERS 12-04 DO YOU WORK WITH TRANSISTOR LIMITERS 12-04 DO YOU WORK WITH DON'T KNOW WHICH TYPE OF CIRCUITS 12-09 DO YOU WORK WITH DIODE CLAMPING CIRCUITS 12-09 DO YOU WORK WITH DIODE CLAMPING CIRCUITS 12-09 DO YOU WORK WITH DIODE CLAMPING CIRCUITS 13-01 IN YOUR PRESENT JOB, DO YOU WORK ON EQUIPMING CIRCUITS 13-02 DO YOU USE WULTIBERS TO CHECK FLECTRON 13-05 DO YOU USE SUBSTITUTION TO CHECK FLECTRON TO CHECK FLECT								20	•	•	0	
12-02 DO YOU WORK WITH SERIES DIODE LIMITERS 12-03 DO YOU WORK WITH SHUNT DIODE LIMITERS 12-04 DO YOU WORK WITH ZENER DIODE LIMITERS 12-05 DO YOU WORK WITH ZENER DIODE LIMITERS 12-07 DO YOU WORK WITH TRANSISTOR LIMITERS 12-07 DO YOU WORK WITH DON'T KNOW WHICH TYPE OF 12-09 DO YOU WORK WITH DIODE CLAMPING CIRCLEOUTS 12-01 DO YOU WORK WITH DIODE CLAMPING CIRCLEOUTS 13-01 IN YOUR PRESENT JOB, DO YOU WORK ON EQUIP 13-02 DO YOU WORK ELECTRON TUBES 13-03 DO YOU USE TUBE TESTERS TO CHECK ELECTRON 13-04 DO YOU USE SCOPES TO CHECK ELECTRON 13-05 DO YOU USE SCOPES TO CHECK ELECTRON 13-06 DO YOU USE SCOPES TO CHECK ELECTRON 13-07 DO YOU USE SCOPES TO CHECK ELECTRON 13-06 DO YOU USE SCOPES TO CHECK ELECTRON 13-07 DO YOU USE SCOPES TO CHECK ELECTRON 13-06 DO YOU USE SCOPES TO CHECK ELECTRON 13-06 DO YOU USE SCOPES TO CHECK ELECTRON 13-06 DO YOU USE OR REFER TO CUTOF		52	31	36	36 36	30	0.	0.	3.8	~	100	
12-03 DO YOU WORK WITH SHUNT DIODE LIMITERS 12-04 DO YOU WORK WITH ZEMES WITH 81AS 12-05 DO YOU WORK WITH TRANSISTOR LIMITERS 12-05 DO YOU WORK WITH TRANSISTOR LIMITERS 12-07 DO YOU WORK WITH DANIT KNOW WHICH TYPE OF 12-07 DO YOU WORK WITH DON'T KNOW WHICH TYPE OF 12-07 DO YOU WORK WITH DON'T KNOW WHICH TYPE OF 12-07 DO YOU WORK WITH DON'T KNOW WHICH TYPE OF 13-07 DO YOU WORK WITH DON'T KNOW WHICH TYPE OF 13-07 DO YOU WORK WITH DON'T KNOW WHICH TYPE OF 13-07 DO YOU WERE ELTRON TUBES TO SEE IF THE 13-05 DO YOU USE TUBE TESTERS TO CHECK ELECTRON 13-05 DO YOU USE SCOPES TO CHECK ELECTRON 13-05 DO YOU USE SCOPES TO CHECK ELECTRON 13-05 DO YOU USE SCOPES TO CHECK ELECTRON 13-06 DO YOU USE SCOPES TO CHECK ELECTRON 13-06 DO YOU USE OR REFER TO PEAK INVERSE YOUTAN			-					20	1.1	13	100	
12-04 DO YOU WORK WITH LIMITERS WITH BILS 12-05 DO YOU WORK WITH ZEMER DIODE LIMITERS 12-05 DO YOU WORK WITH DANSSTOR LIMITERS 12-06 DO YOU WORK WITH DON'T KNOW WHICH TYPE OF 12-08 DO YOU WORK WITH BASIC DIODE CLAMPING CIRCUITS 12-08 DO YOU WORK WITH BASIC DIODE CLAMPING CIRCUITS 12-09 DO YOU WORK WITH DON'T KNOW WHICH TYPE OF CIRCUIT 13-01 IN YOUR PRESENT JOB, DO YOU WORK ON EQUIP 13-02 DO YOU USE TUBE TESTERS TO CHECK ELECTRON 13-04 DO YOU USE SOPES TO CHECK ELECTRON 13-05 DO YOU USE SOPES TO CHECK ELECTRON 13-06 DO YOU USE OR REFER TO PEAK INVERSE VOLTA.								20	=	•	100	CIAMETERS AND
12-05 DO YOU WORK WITH ZENER DIODE LINITERS 12-06 DO YOU WORK WITH DON'T STOR LINITERS 12-07 DO YOU WORK WITH BASIC DIODE CLAMPINE CIR- 12-09 DO YOU WORK WITH BASIC DIODE CLAMPING CIR- 12-09 DO YOU WORK WITH DIODE CLAMPING CIR- 12-09 DO YOU WORK WITH DIODE CLAMPING CIR- 13-09 DO YOU WORK WITH DON'T KNOW WHICH TYPE OF CIRCUIT 13-01 DO YOU WORK WITH DON'T KNOW WHICH TYPE OF CONTAINS ELECTRON TUBES 13-02 DO YOU CHECK ELECTRON TUBES TO CHECK ELECTRON 13-05 DO YOU USE WULTINEERS TO CHECK ELECTRON 13-05 DO YOU USE WULTINEERS TO CHECK ELECTRON 13-05 DO YOU USE SOBSTIUTION TO CHECK ELECTRON 13-06 DO YOU USE OR REFER TO CUTOFF			3					20	=	•	100	CLAMPEKS
12-06 DO YOU WORK WITH TRANSISTOR LIMITERS 12-07 DO YOU WORK WITH DON'T KNOW WHICH TYPE OF 12-07 DO YOU WORK WITH DIODE CLAMPING CIRCUITS 12-07 DO YOU WORK WITH DIODE CLAMPING CIRCUITS 12-07 DO YOU WORK WITH DON'T KNOW WHICH TYPE OF CIRCUIT CONTAINS ELECTRON TOBS, DO YOU WORK ON EQUIPMINGS TO SEE IF THE 13-02 DO YOU CHECK ELECTRON TOBES 13-03 DO YOU USE TUBE TESTERS TO CHECK ELECTRON 13-05 DO YOU USE SCOPES TO CHECK ELECTRON 13-05 DO YOU USE SCOPES TO CHECK ELECTRON 13-05 DO YOU USE SCOPES TO CHECK ELECTRON 13-06 DO YOU USE SCOPES TO CHECK ELECTRON 13-06 DO YOU USE OR REFER TO CUTOFF								50	1.7	12	100	
12-07 DO YOU WORK WITH DON'T KNOW WHICH TYPE OF 12-08 DO YOU WORK WITH DIDES CLAMPING CIRCLE 12-09 DO YOU WORK WITH DIDES CLAMPING CIRCLE 12-10 DO YOU WORK WITH DON'T KNOW WHICH TYPE OF CIRCUIT 13-01 IN YOUR PRESENT JOB, DO YOU WORK ON EQUIP COMPANS ELECTRON TUBES 13-02 DO YOU USE TUBE TESTERS TO CHECK ELECTRON 13-03 DO YOU USE WULTIMETERS TO CHECK ELECTRON 13-04 DO YOU USE SCOPES TO CHECK ELECTRON 13-05 DO YOU USE SCOPES TO CHECK ELECTRON 13-05 DO YOU USE SCOPES TO CHECK ELECTRON 13-06 DO YOU USE SCOPES TO CHECK ELECTRON 13-06 DO YOU USE SCOPES TO CHECK ELECTRON 13-06 DO YOU USE OR REFER TO CUTOFF								20	17	12	100	
12-09 DO YOU WORK WITH BASIC DIODE CLAMPING CIRCUITS 12-10 DO YOU WORK WITH DIODE CLAMPING CIRCUITS 12-10 DO YOU WORK WITH DON'T KNOW WHICH TYPE OF CIRCUIT 13-01 IN YOUR PRESENT JOB'S DO YOU WORK ON EQUIP CONTAINS ELECTRON TUBES TO SEE IF THE 13-02 DO YOU USE TUBE TESTERS TO CHECK ELECTRON 13-04 DO YOU USE SCOPES TO CHECK ELECTRON 13-05 DO YOU USE SCOPES TO CHECK ELECTRON 13-05 DO YOU USE SCOPES TO CHECK ELECTRON 13-06 DO YOU USE SOPESTIVITION TO CHECK ELECTRON 13-06 DO YOU USE SOPESTIVITION TO CHECK ELECTRON 13-06 DO YOU USE SOPESTIVITION TO CHECK ELECTRON 13-06 DO YOU USE OR REFER TO PEAK INVERSE YOUTA	17685			13	13 13		20	02	=	~	0	
12-09 DO YOU WORK WITH DIODE CLAMPING CIRCUITS 12-10 DO YOU WORK WITH DON'T KNOW WHICH TYPE OF CIRCUIT 13-01 IN YOUR PRESENT JOB, DO YOU WORK ON EQUIP CONTAINS ELECTRON TUBES 13-02 DO YOU USE TUBE TESTERS TO CHECK ELECTRON 13-04 DO YOU USE WOLTHIFTERS TO CHECK ELECTRON 13-05 DO YOU USE SCOPES TO CHECK ELECTRON 13-05 DO YOU USE SUBSTITUTION TO CHECK ELECTRON 13-05 DO YOU USE SUBSTITUTION TO CHECK ELECTRON 13-05 DO YOU USE OR REFER TO CUTOFF	•		31					20	22		100	
12-10 DO YOU WORK WITH DON'T KNOW WHICH TYPE OF CIRCUIT CONTAINS ELECTRON TUBES TO YOU WORK ON EQUIP CONTAINS ELECTRON TUBES TO SEE IF THE 13-02 DO YOU USE WULTINEFERS TO CHECK ELECTRON 13-05 DO YOU USE WULTINEFERS TO CHECK ELECTRON 13-05 DO YOU USE SCOPES TO CHECK ELECTRON 13-05 DO YOU USE SUBSTITUTION TO CHECK ELECTRON 13-05 DO YOU USE SUBSTITUTION TO CHECK ELECTRON 13-05 DO YOU USE OR REFER TO FURTH INVERSE YOUTAINSON TO YOU USE OR REFER TO FEAK INVERSE YOUTAINSON TO YOU USE OR REFER TO FEAK INVERSE YOUTAINSON TO YOU USE OR REFER TO FEAK INVERSE YOUTAINSON TO YOU USE OR REFER TO FEAK INVERSE YOUTAINSON TO YOU USE OR REFER TO FEAK INVERSE YOUTAINSON TO YOU WAS TO YOU USE OR REFER TO FEAK INVERSE YOUTAINSON TO YOU WAS TO YOU W	8145							0	17	13	001	
CONTAINS ELECTRON TUBES CONTAINS ELECTRON TUBES 13-02 DO YOU CHECK ELECTRON TUBES TO SEE IF THEY AR 13-03 DO YOU USE TUBE TESTERS TO CHECK ELECTRON TUB 13-05 DO YOU USE SCOPES TO CHECK ELECTRON TUBE 13-05 DO YOU USE SCOPES TO CHECK ELECTRON TUBE 13-05 DO YOU USE SCOPES TO CHECK ELECTRON TUBE 13-05 DO YOU USE STEER TO CHECK ELECTRON TUBE 13-06 DO YOU USE OR REFER TO CHECK ELECTRON TUBE 13-06 DO YOU USE OR REFER TO PEAK INVERSE VOLTAGE R	3 2 1 4 1	0	•					20	•	•	0	
CONTAINS ELECTRON TUBES 13-02 DO TOU CHECK ELECTRON TUBE 13-03 DO TOU USE TUBE TESTERS TO 13-04 DO YOU USE NOTTHETERS TO 13-05 DO YOU USE SCORES TO CHECK 13-05 DO YOU USE SUBSTITUTION TO 13-07 DO YOU USE SUBSTITUTION TO	WHICH	75	69	31 2	98 38	-	50	20	=		001	
13-02 DO TOU CHECK ELECTRON TUBE 13-03 DO TOU USE TUBE TESTERS TO 13-04 DO TOU USE SCOPES TO CHECK 13-05 DO TOU USE SCOPES TO CHECK 13-06 DO TOU USE SUBSTITUTION TO 13-07 DO TOU USE OR REFER TO CUT												
13-03 DO 700 USE TURE TESTERS TO 13-04 DO 700 USE WULTINETERS TO 13-05 DO 700 USE SCHOOLS TOTAL 13-04 DO 700 USE SUBSTITUTION TO 13-04 DO 700 USE OR REFER TO CUT	0009			28 2					=	•	001	
13-04 DG TOU USE MULTINETERS TO 13-05 DG TOU USE SCORES TO CHECK 13-05 DG TOU USE SUBSTITUTION 13-07 DG TOU USE OR REFER TO CUT 13-08 DG TOU USE OR REFER TO PER	2					1			•	0	8	
13-05 DO TOU USE SCOPES TO CHECK 13-06 DO TOU USE SUBSTITUTION TO 13-07 DO TOU USE OR REFER TO PER, 13-08 DO TOU USE OR REFER TO PER,				-					= '	•	001	ELECTRON TUBES
13-07 00 YOU USE OR REFER TO PURAL 13-09 00 YOU USE OR PURAL 13-09 0	9	200			2	•	95	3	• =	0	000	
13-08 DO YOU USE OR REFER TO PEAK INVERSE VOLTAGE									•		9 0	
	TIME								4	•	0	
The same of the sa									•		2	
THE OF SERVE TO TRIEST TO THE WALL THE			l						•	0 0	000	
13-11 00 10	9								•	0	001	
13-12 DO YOU USE OR REFER TO SATURATION	And the second s						-	-		0	100	-
13-13 00 YOU USE OR REFER TO DE PLATE			5						-	•	100	
04 00		0		-	7				0	0	0	
RESISTANCE FOR FLECTRON TURES							,					
DO YOU USE OR REFER TO PLATE								20	=	4	100	
13-16 00 7			31					20	=	•	100	
13-17 00 100 USE OR REFER . J GRID								20	=	•	100	
13-18 DO YOU USE								20	=	•	100	
13-19 DO YOU USE OR REFER TO CATHO		20		23 2	22 25		30	20	=	•	100	
DO YOU USE OR REFER TO CATHODE CURRENT								20	=	•	001	
13-21 DO YOU USE OF REFER TO THE TRIODE AMPLIFIC		52						٥	•	0	100	
OF CHANGE IN PLATE VOLTAGE TO A CHANG	CE 030 1											

GPSH4C PAGE 22

TASK GROUP SUNMARY

	DY-15K	28C	327	5PC 228	228	5°C	231	5PC	233	234	5PC 235	236	
586 13-22 00	YOU CALCULATE ACTUAL YALUES OF TRIODE	0	0	~	~	0	٥	0	0	۰	0	001	
AMPLIFIC	- 44	25	-	4	•	:	-	5	c	4	c	001	
			,		•	•					•	3	
13-24 00	YOU USE OR REFER TO ELECTRON TUBE TRANSCONDUCTANCE	8	0	2	2	9	0	a	0	•	0	100	
16. WHIC		•	•	,	•	,		,	5	4	•		
TRANSCON	TRANSCONDUCTANCES	3	0	,	,	0	•	0	2	•	>	001	
590 13-24 00	YOU USE ON REFER TO THE ELECTRON TUBE PARAMETER	0	0	٦	•	a	0	a	0	0	0	0	
CALLED A													
13-27 00	13-27 DO YOU CALCULATE ACTUAL VALUES OF AC PLATE	0	0	7	7	d	0	d	0	0	0	0	-
13-28 DO YOU	13-28 DO YOU USE OR REFER TO ELECTRON TUBE INTERELECTRODE	•	0	•	*	c	0	c	0	•	0	100	
CAPACITANCE													
13-29 00	13-29 DO YOU USE OR REFER TO CHARACTERISTIC CURVES IN YOUR	0	0	•	•	4	0	20	0	•	0	00	
THE WALL		•	•	•					,	•			
201 00 00 00	MOTAGE FOR A COSCILITION ALLS	7	0	*	-	a	•	a	0	•	9	20	
13-31 00	13-31 DO YOU USE CHAPACTERISTIC CURVES TO SELECT PLATE	11	d	-	•	c	0		a	•	0	001	
CURRENT					-								
13-32 00	13-32 DO YOU USE CHARACTERISTIC CURVES TO SELECT BIAS	11	•	,	•	a	0	10	0	•	0	100	
REGUIRED		1									3		
13-33 00	13-33 DO YOU USE CHARACTERISTIC CURVES TO SELECT BIAS	-13	•	-	•	٩	0	0	0	•	0	00	
REGUIRED	4	,			•	:			4		•	5	
200			0	6	-			0,	0		0	200	
6461016		2	•	=	=	-	•	0,	0	•	0	90	
13-34 00	13-34 DO TOU USE TEST TUBE CHECKERS TO DETERMINE ELECTRON	17	0	7	7	0	0	o	0	•	0	001	
TUBE AMP													
13-37 00	13-37 DO YOU USE MULTINETERS TO DETERMINE ELECTRON TUBE	25	•	•	•	1.9	0	50	b	•	0	100	
13-18 DO YOU US	15-18 DO YOU UKE OSCILLORCOPES TO DETERMINE ELECTRON TURE	25	9.6	3	-	•	•	20	c	•	•	001	
AMPLIFIER GAIN				:									
603 13-39 00	13-39 DO YOU USE CHARACTERISTIC CURYES TO DETERMINE	•	0	٦	•	0	0	0	0	•	0	100	
2000	CLECINON TORE ANTIFIER GAIN	•	c		•		0	1	11	7	c	000	The second control of the second control of
TUGNI SA	COL CALACES	>	•	•	•	•	,	0	0	•	0	201	
13-41 00	13-41 DO TOU USE OF REFER TO TURE SOCKET NOTATION	4.2	*	-	=	-	٦	0	20	0	0	0	
13-12 00	BERIN		2.0	20		25	11	30	50	•	•	0	
13-43 00	10 3		0	~	2	0	0	0	0	•	0	100	
OPERATIN	OPERATING TEMPERATURE OF THE EMITTING SURFACE IN THE			-	-	-	-	-	-		0	-	
		,	,	•	•	:			c		•	•	
SUCH AS	SUCH AS MANUALS OR CHARTS	2				-		0	,	,	•	>	
00 10-15	YOU WORK WITH ELECTRON TUBE AMPLIFIERS OR CIRCUITS	80	38	9	=	1.	-	0	02	=	•	100	ELECTRON TUBE
							,		,		,		AMPLIFIERS
910 71-05 00	JI-02 DO TOU DETERMINE THE CLASS OF OPERATION FOR ELECTRON	17	0	1	2	•	0	20	0	•	0	001	AND CIRCUITS

HETERODYNING,
MODULATION, AND
DEMODULATION SPECIAL PURPOSE TUBES SYSTEMS ELECTRON ¥ 0001 000 00 0 000 0 001 0 100 100 100 0000000 000 100 236 0 0 0 000 0 . 0 5 4 - 0 000 35 0 40 • 0 22 22 22 2 28 39 400 - 8 SPC 233 2002 50 0 20 20 0 20 20 20 20 20 0000000 200 000 000 00 5PC 232 200 a 9 9 0 0 30 09 30 20 20 200 5PC 231 077 • 0 * . = - 40 SPC a • 0 0 2 • * 38 69 0 2 4 2 23 13 = GPSH4C PAGE 200 7 27 20 20 9 * . 33 • 000 7 0 52 23 30 2 - 5 7 3 5 5 79 \$ 4 24 7 23 23 23 = 200 . 20 7 120 73 43 25 28 INSPECT AN TRANSMIT OR RECEIVE SYSTEMS
CLEAN AN TRANSMIT OR RECEIVE SYSTEMS
ALIGM OR ADJUST AN TRANSMIT OR RECEIVE SYSTEMS 90 0 YOU WORK ON AM THANSHIT OR RECEIVE SYSTEMS IN YOUR 0 JZ-04 DO YOU TROUBLESHOOT OR REPAIR CIRCUITS IN WHICH BEAM JI-07 DO YOU TROUBLESHOOT OR REPAIR DON'T KNOW WHICH TYPE THYRATRONS ARE USED J2-07 BO YOU USE OF OPERATION OF CATHODE-RAY TUBES 2-09 DO YOU USE OR REFER TO THE PRINCIPLES OF OPERATION ELECTROSTATIC DEFLECTION SYSTEMS OF CATHODE-RAY TUBES REPAIR PARAPHASE AMPLIFIERS REPAIR PUSH-PULL AMPLIFIERS REPAIR COMPOUND-CONNECTED OF SIGNALS DU USE OR REFER TO PHOSPHOR SCREENS
DU USE OR REFER TO AQUADAG COATINGS
DU USE OR REFER TO FEETRENCE
DU USE OR REFER TO DECAT THRES
OU USE OR REFER TO PROSPHORESCHICE
OU USE OR REFER TO PHOSPHORESCHICE
OU USE OR REFER TO PHOSPHORESCHICE
OU USE OR REFER TO PHOSPHORESCHICE
OU WORK ON TRANSHIT OR RECEIVE SYSTEMS IN YO CASCADE-CONNECTED J2-06 DO YOU TROUBLESHOOT OR REPAIR CIRCUITS IN WHICH OF AMPLIFIEN
J2-01 DO YOU WORK WITH GAS TUBES (HOT CATHODE OR COLD J2-02 DO YOU WORK WITH CATHODE-RAY TUBES J2-03 DO YOU USE OR REFER TO THE CHARACTERISTICS OF YOU PERFORM TASKS ON REACTANCE MODULATORS YOU PERFORM TASKS ON MODULATED OSCILLATORS PERFORM TASKS ON FREQUENCY CONVERTERS POWER TUBES ARE USED JZ-05 DO YOU USE OR REFER TO THE CHARACTERISTICS ELECTRON GUNS OF CATHODE-RAY TUBES (CRT)
2-08 DO YOU USE OR REFER TO THE PRINCIPLES OF
ELECTRONAGNETIC DEFLECTION SYSTEMS OF CATHODE-YOU PERFORM TASKS ON FREQUENCY MIXERS
YOU USE OR REFER O THE METERODYMING OF MORK MITH TRANSMIT OR RECEIVE SYSTEMS BY SELECTED GRPS REPAIR ON 2000 DY-TSK JI-03 DO YOU TROUBLESHOOT
JI-04 DO YOU TROUBLESHOOT
JI-05 DO YOU TROUBLESHOOT JI-06 DO TOU TROUBLESHOOT TASK GROUP SUNMARY PERCENT MEMBERS PERFORNING PCT MBRS RESPONDING .YES. 100 308 POWER TUBES AMPLIFIERS AMPLIFIERS THYRATRONS 13-02 DO 00 000 638 KI-01 DO PRESENT PRESENT 72-08 13-04 K1-02 37-15 13-03 13-05 13-06 635 619 631 617 618 630 633 636 619 639

GPSH4C PAGE 24

TASK GROUP SUMMARY
PERCENT MEMBERS PERFORMING

				SPC	200	2	2	SPC	SPC	245	SPC	SPC	SPO	SPC	
1			DY-T5K	326	227	228	522	230	131	132	233	534	535	236	
642	K1-05 Do	400	MSMIT OR	17	23	4	•	61	*	20	0	•	0	100	
6 4 3	K1-06 30	100	A RECEIVE	•	23	=		13	•	30	0		0	100	
	COMPONE	475	11 11 11 11 11 11 11 11 11 11 11 11 11	-				-	-						
** 9	x1-07 DO	400	REMOVE OR REPLACE AM TRANSMIT OR RECEIVE	-1	3	5	-3	•	+	70	0	0	0	0	
	SYSTERS	N. N.	4		16		1		9	3.	0			c	-
1	200	2	THENT	:	2	:	:	•	•	0	,	•	•	•	
	10 00 00 1 x	200	Pact	a		16	1	-	-	30	0	4	0	100	
		2	10 10 10 10 10 10 10 10 10 10 10 10 10 1	•				3 :	: -	200	0 0		0 0	2	
	2	2	TANK AN NO CACAL				9	2	-		•		0 0	200	
0 7 0	20 11-14	2	ASKS ON AUDIO	o	0	*	,	0		0	0	•	0	001	
	KI-12 00	100	ON POMER		0	2	•	0	=	9	0	•	0	00	
950	K1-13 00		TASKS ON	•	a	- 1	•	13	=	20	0	•	0	001	
159	KI-1* DO	100	TASKS ON IF AM	•	•	15	9 1	13	=	20	0	•	0	100	
452	KI-15 00	DOA	TASKS ON	•	•	15	1.6	13	=	20	0	0	0	0	
653	K1-16 DO	YOU	TASKS ON DON'T REMEMBER WHICH A	0	0	•	*	0	7	0	0	•	0	100	
454	K1-17	100	OR REFER TO AMPLITUDE STABILIZATION IN	0	00	=	- 13	•	00	10	0	•	0	100	
	TRAN	TERS								l					
658	K 1-18	DO YOU USE	USE OR REFER TO FREQUENCY STABILIZATION IN	1.7	15	-	13	13	60	20	a	٠	0	100	1
	THANS	TTERS	The state of the s	-	A CONTRACTOR OF THE PARTY OF TH		-								
959	K1-19	DO YOU USE	OR REFER TO SENSITE	•	0	13	13	-	•	20	0	•	٥	100	
457	K1-20 00	100	OR REFER TO SELECT	•	0	5	• 1	13	=	20	0	•	٥	001	
659	K1-21 00	100	OR REFER TO 2ND HAR	0	0	s	1	٥	~	0	0	•	0	100	
454	K1-22 DO	100		0	0	80	1	-	٥	20	0	•	٥	001	
099	K1-23 00	100	OR REFER TO SQUARE	0	0	7	~	0	0	0	0	0	0	0	
199	K1-24 DO	00 400	OR REFER TO CO-CHA	0	0	7	2	0	0	a	0	0	a	0	
662		100	OR REFER TO IMAGE FREQ	0	0	13	?	-3	•	20	0	9	0	0	
663	ž	100	ER TO SIGNAL	0	0	1	1	4	0	10	0	•	0	100	
	IMAGE RE	JEC													
	K1-27 DO	100	KI-27 DO TOU TRACE SIGNALS OR CURRENT PATHS THROUGH AM	-1	15	-	-	-	•	30	0	•	0	001	-
		TER													
599		207	METERS OF TOO TRACE SIGNALS OR CURRENT PAINS THROUGH AN	12	5	=	2	•	•	a a	0	•	0	00	
999	*	100	2-01 DO YOU WORK MITH FM TRANSHIT OR RECEIVE SYSTEMS IN	11	=	39	36	50	32	20	0.	=	12	0	
		PRESENT JOB													
667	K2-05	100	DO YOU INSPECT FM TRANSMIT OR RECEIVE SYSTEMS	17	5	ç	38	99	38	20	0.9	=	13	0	
	K2-03	100	lat	•	1.5	33	31	38	27	30	0.	=	12	0	SMALONO MA
699	×2-04 00	100	ILIGN FM TRANSMIT OR RECEIVE SYSTEMS	11	3	43	38	2.6	35	20	0	=	13	0	micic Wi
670	×2-05 00	100	TROUBLESHOOT TO PH TRANSMIT OR RECEIVE	17	31	*	40	2.6	38	20	0.0	=	1.2	0	
	SYSTEMS														
671		100	TROUBLESHOOT TO FM TRANSMIT OR RECEIVE	17	31	33	15	38	27	0	0	=	13	0	
477	K2-07 00 700	400	RENDYS OF SERVICE AND TRANSPORT OF STREET	1.1	2.3	30	3.6	4	15	0		=	1.2	c	
					:	,		2	,	2			:)	
673	×	TOU	REMOVE OR REPLACE FM TRANSMIT OR RECEIVE	17	31	28	23	31	22	0,	20	Ξ	1.2	0	
	COMPONENTS	175													
474	x2-09 DD	100	K2-09 DO YOU PERFORM TASKS ON AUDIO AMPLIFIERS	0	0	1	*		-	-	0	4	,	•	
2 0 7				•				2	,	0		,	•	0	

GPSH4C PAGE 25

DY-TSK	5 P C 22 6	5 P C 227	5 P.C.	5 P.C.	SPC	SPC 231	5PC 3	5 PC 3	239 239	SPC S	P.C. 36	
YOU PERFORM TASKS ON DRIVERS LINTERMEDIATE	40	80	25	27	6	6	20	20	4	40	0	
PENFORM TASKS ON POWER AMPL	00	9	28	27	1,	•	0	20	٠	۰	0	
PERFORM TASKS ON RY AMPLIFIERS	on o	S	31	31	-	2.	0	20	•	•	0 (
PERFORM TASKS ON FREGUENCY CO	80		17	50	52	*	30	20	0	•	0	-
PERFORM TASKS ON	ao 1	5	28	27	3.1	0	40	30	•	•	0	
9000	10 0	10 a		20	25		9 3	20		•	0 0	-
PATHS THROUGH	0 30	3	9 6	36	- 3 1	3 5	200	2 0	::	7 7		
SHITTERS CURRENT PATHS THR	00		4.6	33	3.8	27	7	9	=		0	
KA-01 DO YOU CONVERT DECIMAL (BASE 10) NUMBERS TO OCTAL	æ	0	=	=	13	2	10	50	=	9	00	1
TANGE OF THE CONVERT DECIMAL NUMBERS TO BINARY (BASE 2)	90	0	9	1.8	•	*	9	20	2.8	24 1	OC NIMRERING	
STATE OF STA	d	•				u	-			•		
AND DO YOU CONCERN ONLY NIKE WAS TO DISTANCE AND THE STANCE OF THE STANC	0 00	0	-	= =	3	2	00	200	11	-	DO SYSTEMS	-
CONVERT BINARY NUMBERS TO DECIMAL	. 00	0	. 2		. 6	0	2 -	20	33	29	00	
OCTAL NUMBERS	60	a	=	-	13	•	0	02	11	-	00	5
A SUM	00	0	1.8	8	1 9	•	10	50	28	-	90	6
CARRY METEOD		9		-	13	20	0	20	-	~	90	
K3-09 DO YOU SUBTRACT BINARY NUMBERS USING THE DIRECT	æ	0	8	9	61	*	0	20	28	1 62	00	
	•	c	-			J	-	00	1.3			
ASS LINO IN YOUR PRESENT LON. DO YOU PERFORM ANY TASKS	0	2	21	20	3		- 5	202		29	00	-
				:			2		=	-		
AND LOSIC STABOL	0	•		2			0	2	:			-
697 LI-33 DO YOU CONSTRUCT TRUTH TABLES FOR OR LOGIC SYMBOLS	0	0	15	13	61	00	3 D	02	11	12 1	SNO1	100
698 LI-04 DO YOU CONSTRUCT TRUTH TABLES FOR AND OR OR LOGIC	0	0	13	13	13	0	20	0	11	12 1	TO	3
9 5 7 5 1 10 1 4 5	c	c	:	-	-	Œ	30	C			c	
												1
TOU USE ON REFER TO TRUTH TABLES FOR AND LOGIC	0	70	5	2	0		20	50	9 7	24 1	00	
TOU USE OR REFER TO TRUTH TABLES FOR OR LOGIC	٥	60	5	13	0	•	3	0.2	2.8	24 1	00	
000	c	œ	31	:		•	3.5	0.6	3.3	9	0	
STATE INDICATORS)	,						2		,		
REFER	0	0	1.5	2	•	•	20	02	22		00	1
USE OR REFER TO LOGIC STMBOL	0	5	50	20	0	9		20		-	00	3
OR REFER TO LOGIC STMBOLS FOR OR GATES	0	5	20	50	0	4	20	20	33	29 1	00	
OR REFER TO LOGIC SYMBOLS F	C		200	00		4 .		ce			-	

0 236 236 001 100 00 00 0 001 0 0 00 0 100 001 88 001 100 800 100 000 001 001 235 54 7 7 ~ 12 ~ ~ 71 234 28 1 --212 1 --= 1 17 = --233 50 20 20 20 o 20 0 20 20 20 20 20 20 22 20 20 200 20 0 232 20 0 0 10 9 9 00 9 9 9 20 20 a * 231 * = 2 2 = a 5°C • -7 2 24 7 6 • 3 SPSH4C PAGE 5PC 9 2 2 • = 5PC 8 13 2 0 1 0 5 9 = = = . 22 = SPC 227 0 15 0 O 0 . 0 0 0 0 5PC 0 0 0 0 0 0 00 0 0 0 0 0 0 00 0 0 2-22 DO TOU MEASURE OUTPUT "AVESHAPES OF LOGIC CIRCUITS 1-23 DO TOU TRACE DATA FLOW THROUGH COMPLEMENTED PLIP-FLOP ICHEMATIC DIAGRAMS 10610 7-08 DO YOU USE OR REFER TO LOGIC SYMBOLS FOR DIRECT COUPLED TRANSISTOR LOGIC (OCTL) CIRCUIT GATES 2-09 DO YOU USE OR REFER TO TRUTH TABLES FOR CURRENT MODE DO YOU MORK WITH BISTABLE (FLIP-FLOP) MULTIVIBRATORS DO YOU WORK WITH HOMOSTABLE (ONE-SHOT) OR PEFER TO COMPLEMENTING FLIP-FLOP LOGIC ö DO YOU COMPUTE SUM AND CARRY EXPRESSIONS FOR SERIAL DO YOU MEASURE INPUTS ON OUTPUTS OF LOGGE GATES ON YOU DEVELOP OR ANALYZE BOOLEAN EQUATIONS IN THE ESS OF TROUBLESHOOTING DIGITAL CIRCUITS OF TROUBLESHOOTING DIGITAL CIRCUITS DO YOU AMALYZE LOGIC CIRCUITS BY USING BOOLEAM YOU USE OR REFER TO LOGIC STABOLS FOR EXCLUSIVE L 708 LZ-01 IN YOUR PRESENT JOB, DO YOU PERFORM ANY TASKS
RELATING TO BOOLEAN EQUATIONS, LOGIC DIAGRAMS, OR LOGIC ON FULL ADDER LOGIC DIAGRANS
DO TOU TRACE DATA FLOW THROUGH PARALLEL FULL ADDER L 731 LZ-24 DO TOU TRACE DATA FLOW THROUGH CONPLEMENTING FLIP-OR REFER TO PLIP-FLOP CIRCUIT DIAGRANS OR REFER TO FLIP-FLOP TRUTH TABLES OR REFER TO COMPLEMENTED FLIP-FLOP OGIC (CML) CIRCUITS POLOGIC DIAGRAMS COMSISTING OR REFER TO SINGLE-SHOT MULTIVIBRATOR L2-25 DO TOU CONSTRUCT TRUTH TABLES FOR J-K FLIP-FLOP LOGIC STMBOLS L 710 L2-03 DO YOU CONSTRUCT TRUTH TABLES FOR CURRENT HODE 723 L2-16 DO YOU USE OR REFER TO FLIP-FLOP MULTIVIBRATOR (CML) CIRCUITS L2-04 DO YOU DRAW LOGIC DIAGRAMS FROM GIVEN BOOLEAN L 709 LZ-52 DO YOU DRAW LOGIC SYMBOLS FOR DIRECT COUPLED DO TOU WORK WITH ASTABLE (FREE RUNNING) PLT MBRS RESPONDING . TES. BY SELECTED GRPS TRANSISTOR LOGIC (DCTL) CIRCUITS DY-TSK FLOP SCHEMATIC DIAGRAMS PERCENT HEMBERS PERFORMING YOU USE 0.5E USE TOU USE LOGIC DIAGRAMS INCTIVIBRATORS LOGIC SYMBOLS 707 707 CIRCUITS 8 L 707 LI-13 DO 00 00 12-21 00 ROCESS L2-22 00 712 12-05 1 714 12-07 1 716 12-09 719 12-12 724 62-17 13-20 720 12-13 717 12-718 12-L 715 L2 711 129 725 727 728 730 732 721

4

ď

BOOLEAN EQUATIONS

GPSH4C PAGE 27

L3-01 DO YOU WORK WITH 016		282			u	205	4	Spr	200	285	SPC	
L3-01 DO YOU WORK WITH DIS		226	227	J 90	229 23	30 231		233	234	235	236	
	UNTERS IN YOUR PRESENT JOB	05	100	1.5		-		20	22	5.8	0	
13-02 00 YOU USE OR REFER TO UP.CO		00		9-	- 91		10	20	22	5 4	0	
L3-03 DO YOU USE OR REFER	-COUNTERS	90	10	5	13	1		20	77	5.4	0	
8	AL COUNTERS	0	•	80	0		_	0	22	24	0	CONTINUES
YOU USE OR REFER TO PARAL	LLEL COUNTERS	٥		10		3 5		0	22	5.4	0	20000
OR REFER TO RING	COUN		0	1	7		-	0	•	9	0	
L3-07 DO YOU USE OR REFER TO DECAD		•	0		۰		-	0	=	12	0	
13-08 DO YOU USE OR REFER TO	0	0	80		111		-	20	22	5.4	0	
13-09 DO YOU USE OR REFER TO DOWN	CLOCKS	0	0	. 5		-	-	20	11	8	0	
L3-10 DO YOU USE OR REFER TO UP CL		0	0	15	9 !	*	-	20	11		د	
L3-11 DO YOU TRACE DATE FLOW THROW	UGH LOGIC DIAGRANS OF	0	•	00	, ,		0	20	17		0	
OUNTERS	-FLOPS											
	OGIC DIAGRAMS	0	0	1	*	3 3	10	20	=	1.2	0	
SERIAL OF OR DOWN-COUNTERS HAVING	-											
745 L3-13 DO YOU TRACE DATA FLOW THROUGH	DEM LOGIC DIAGRAMS OF	0	0	1	1	6 9	10	0	=	1.2	0	
DECADE COUNTERS												
DO YOU TRACE DATA FLOW THROU	UGH LOGIC DIAGRAMS OF	0	0	1	1	9	10	0	•	•	o	
			-									
747 L3-15 DO YOU TRACE DATA FLOW THROUGH	LOGIC DIAGRAMS OF	0	0	1	1	,	10	0	13	•	0	
	EL STORAGE REGIS						1				•	
748 LB-16 DO TOU TRACE DATA FLOW THROUGH	USH LOSIC DIAGRAMS OF	0	0	0	=		10	0	2.5	5	0	
	To care Director of	0	0		0	,	-	0.6	1.3		c	
DIRECTIVE OF COUNTRYS		0	,	0		•	0.	2	:	-	•	
750 L3-18 DO YOU COMPUTE THE BINARY COUNT	DUNT AFTER SPECIFIC IMPUT	0	0	1	*	2 2	10	30	•	•	0	
	FLIPAFLOP											
751 L3-19 DO YOU COMPUTE THE BINARY COUNT AFTER	25	0	0	s		•	10	0	•	•	0	
PULSES FOR SERIAL UP- OR DOWN-COUNTERS	UNTERS HAVING COMPLEMENT-					-		-	-	1	-	-
752 L3-20 00 YOU COMPUTE THE BINAHY COUNT	DUNT AFTER SPECIFIC INPUT	0	0	1	•	,	10	50	=	1 2	0	
PULSES FOR SERIAL UP-COUNTERS FEE	EDING A PARALLEL STO											
753 L3-21 DO YOU COMPUTE THE BINARY COUNT	DUNT AFTER SPECIFIC INPUT	0	0	5		9	10	0	=	- 1	0	
	ES FROM LOGIC DIAGRAMS OF	0	0	5		6 3	10	2	•	•	0	
DECADE COUNTERS	3418 AT 80 13 61 13 13 13 13	c	c	u			-	C	1	•	c	
	5	,	,				01	,			,	
THE APPROP	IATE AND GATE	0	0	,		3 3	10	20	•	•	0	
15 TO 1 MD !	ATE A REQUIRED									1	1	
MILES DO TOU BORN MITH SAUTOOTH MA	NVE GE	45	96	• •		• •		9	•	7:	000	
יוברי מם נפת שפא שונה ואלה לפוסאר	- Ture			000		7 16	4 .		::	7 -	200	
FULSED OSCI	ILLATORS WITH REGENERATIVE	52	38	36	3 %	0	•	0	13	5 6	100	TIMING
740 MI-04 DO TOU MORK WITH PULSED OSCI	ILLATORS MITHOUT	33	31	3.6	36 3	8 30		•	33	•	100	CIRCUITS

USE OF SIGNAL MOTORS AND CENERATORS GENERATORS 88888 80 88 008008 5PC 001 100 00 001 0 0000000 100 00 35 54 = -5 5 54 2 2 • : 39 22 2 22 -22 28 233 0 20 20 20 20 40 202 20 202 200 000000 0000000 70 9 d 90 200 9 00 20 20 0 200000 0000000 SPC 231 35 35 = = 4 50 5 8 26 20 7 25 26 19 25 -7 52 22225 SPSH4C PAGE 4 47 -= - -20 173 7 9= == = 9 = = 12 9 . . . 5PC 227 2 38 3.8 5 2 200 4 8 8 8 6 38 5 5 0000000 = 2222 SPC 226 -1 0 00 20 0000 333 ~ 17 22 2 2 2 2 5 GENERATORS 3-01 IN YOUR PRESENT JOB, DO YOU PERFORM ANY TASKS DEALING MITH ALTERNATING CURRENT OR DIRECT CURRENT MOTORS OR HOTORS H 772 M2-09 DO YOU TROUBLESHOOT TO AN ASSEMBLY OR SUBASSEMBLY
MHILE DSING SIGNAL GENERATORS
H 773 M2-05 DO YOU TROUBLESHOOT TO THE SMALLEST REPLACEABLE
COMPONENT WHILE USING SIGNAL GENERATORS
H 774 M2-06 DO YOU USE AUDIO SINE-WAVE GENERATORS
H 775 M2-07 DO YOU USE AUDIO NON-SINUSOIDAL WAVE GENERATORS SUCH SAWTOOTH WAVEFORMS
744 MZ-01 DO YOU USE SIGNAL GENERATORS IN YOUR PRESENT JOB
770 MZ-02 DO YOU PERFORM OPERATIONAL CHECKS WHILE USING SIGNAL M 766 MI-ID DO YOU USE OR REFER TO PHYSICAL LENGTH OF SANTOOTH AS SAUARE WAVE, TRIANGLE, PULSE, OR SPIKE
776 M2-08 DO YOU USE RF GENERATORS LESS THAN 1,000 MH
777 M2-07 DO YOU USE RF GENERATORS GREATER THAN 1,000 MH
778 M2-10 DO YOU USE OTHER SPECIAL PURPOSE OR MULTI-FUNCTION M 771 MZ-03 DO YOU PERFORM PERIODIC MAINTENANCE SUCH AS ADJUSTING, ALIGNING, OR CALIBRATING WHILE USING SIGNAL M 767 MI-11 DO YOU USE OF REFER TO LINEAR SLOPE OF SAWTOOTH TOU TROUBLESHOOT DOWN TO COMPONENT PARTS OF TOU PERFORM ANY TASKS ON ARRATURES TOU PERFORM ANY TASKS ON ARRATURES TOU PERFORM ANY TASKS ON BRUSHES TOU PERFORM ANY TASKS ON COMMUTATORS TOU PERFORM ANY TASKS ON COMMUTATORS TOU PERFORM ANY TASKS ON POLE PIECES M 768 MI-12 DO YOU USE ON HEFER TO GATE LENGTH OF SAMTOOTH REFER TO ELECTRICAL LENGTH OF WITH BLOCKING OSCILLATORS
OR REFER TO RISE TIME
OR REFER TO FALL OR PLYBACK TIME
ON REFER TO SWEEP TIME YOU INSPECT MOTORS
YOU CLEAN OR LUBRICATE MOTORS
YOU OPERATE MOTORS
YOU RENOVE OR REPLACE COMPLETE MOTORS
YOU REMOVE OR REPLACE MOTOR PARTS
YOU RENOVE OR REPLACE MOTOR PARTS
YOU TROUBLESHOOT AS FAR AS CHECKING WIRE PCT MBRS RESPONDING .YES' BY SELECTED GRPS DY-15K OF HOTORS TASK GROUP SUMMARY PERCENT HEMBERS PERFORMING USE CONNECTIONS GENERATORS GENERATORS GENERATORS MAVEFORMS WAVEFORMS 2000 00 00 00 00 и 764 иј-07 и 764 иј-08 и 765 иј-09 #3-0¢ 13-13 12-12 12-12 43-04 43-10 43-15 785 783 784 789 14.5

· 一本一人

MOVEMENTS VAD WACHETIC SATURABLE REACTORS METER 100 236 100 001 8888 8008 00 800 100 888888 0 0 0 SPC 235 00 5PC = 22 22 22 233 0 0 0 000000000 00 5PC 232 9000 0 00 0 10 0 00000 0 SPC 231 0 0 0 82 0 5Pc 0 29 GPSM4C PAGE 5PC = SPC 228 0 = 10 15 0 0 0 1 0 0 227 9 ! 315 23 38 0 0 33 42 0 12 52 -252 25 25 33 33 33 33 17 HOTORS REACTORS N2-05 DO TOU TROUBLESHOOT MAGNETIC AMPLIFIERS OR SATURABLE 0 ò HE CEXPRESSED IN UNITS OF OTHS PER VOLTS
2-01 DO YOU WORK WITH SATURABLE REACTORS OR HAGNETIC
AMPLIFIERS IN YOUR PRESENT JOB
Z-02 DO YOU INSPECT HAGNETIC AMPLIFIERS OR SATURABLE M2-04 DO YOU REHOVE OR REPLACE MASNETIC AMPLIFIERS OR NI-OF DO YOU CONCEPTUALIZE OR CONSIDER THE FUNCTIONS THE ABOVE -02 DG YOU CONCEPTUALIZE OR CONSIDER THE FUNCTIONS MI-03 DO YOU CONCEPTUALIZE OR COMSIDER THE FUNCTIONS MOVING COILS . HZ-09 DO YOU ADJUST MAGNETIC AMPLIFIERS OR SATURABLE 820 MZ-03 DO YOU CLEAN MAGNETIC AMPLIFIERS OR SATURABLE CLEAN OR LUBRICATE GENERATONS
OPERATE GENERATORS
REMOVE OR REPLACE COMPLETE GENERATORS
REMOVE OR RELACE GENERATOR PARTS
TROUBLESHOOT AS FAR AS CHECKING WIRE
OF GENERATORS 0 0 YOU USE OR REFER TO VOLTMETER SENSITIVITY SATURABLE REACTORS
M2-07 DO YOU REMOVE OR REPLACE MAGNETIC AMPLIFIER TROUBLESHOOT DOWN TO COMPONENT PARTS WORK WITH METERS IN TOUR PRESENT JOB H3-16 DO YOU DETERNINE OR MEASURE THE MAGNITUDE FORCE OR TORQUE CREATED BY A MOTOR M3-17 DO YOU DETERMINE OR MEASURE THE DIRECTION MECHANICAL FORCE OR TORQUE CREATED BY A MOTOR MA-18 DO YOU DETERMINE OR MEASURE THE MAGNITUDE OR DIRECTION OF THE INDUCED VOLTAGE IN MOTORS WORK WITH SPLIT-PHASE HOTORS DO YOU WORK WITH SYNCHRONOUS MOTORS DO YOU WORK WITH INDUCTION MOTORS DO YOU EXTEND THE RANGE OF AMMETERS OF YOU ZERO CHAMETERS. BY SELECTED GRPS INSPECT GENERATORS DO TOU READ METER SCALES SATURABLE REACTOR COMPONENTS DY-TSK ZERO AMMETERS TASK GROUP SUMMARY PERCENT MEMBERS PERFORMING HBRS RESPONDING . TES" M3-29 DO YOU REACTORS REACTORS 819 MZ-02 M3-28 -01-12 606 0:0 911 813 815 821 823 924 H 807 822 808 800 805 803 108

SINGLE SIDEBAND WAVESHAPING CIRCUITS SYSTEMS 00 0000 0 0 001 00 00 100 8888 5PC 001 888 8 000 0 0 235 235 15 5 0 0 5PC 234 0 200 22 0 233 00 0 0 2 0 3 0 0 9 000 0 000 0 0 0 200 3 99 0 5PC 0 0 0 30 90 30 0 0 C 0000 0 0 0 231 00 0 0 0 0 0 0000 0 0 - 20 2 25 230 30 25 0 0 25 : GPSH4C PAGE 5PC 0 • 3 5PC 228 7 00 0 -= 5 5 5 2 30 0 0 0 0 0 0 0 23 0000 0 0 0 : = = 0 1 -0 0 0 0 -17 2 200 575 25 20 0000 0 0 a F-08 DO YOU USE ON REFER TO HYSTERESIS CURVES OR LOOPS 1-09 DO YOU INTERPRET SCHEMATIC DRAWINGS TO DEVELOP DUTPUT AVEFORMS ACROSS REACTOR WINDINGS OR LOAD RESISTORS OF NZ-11 DO YOU INTERPRET SCHEMATIC DRAWINGS TO DEVELOP OUTPUT WAVEFORMS FOR MAGNETIC AMPLIFIERS
NZ-12 DO YOU USE OR REFER TO COERCIVE FORCE IN SATURABLE WITH WAVESHAPING CIRCUITS IN YOUR PRESENT USE OR REFER TO DIFFERENTIATING CIRCUITS
USE OR REFER TO INTEGRATING CIRCUITS
USE OR REFER TO THE CLASSIFICATION OF TIME
TO AS LONG, MEDIUM, OR SHORT
DETERMINE WHITHER AN LR OR RE CIRCUIT IS
TIMG OR INTEGRATING BASED ON THE TIME CONSTANT SATURABLE REACTORS N 833 N2-16 DO YOU USE OR REFER TO SATURABLE REACTOR SCHEMATIC OR REFER TO TRANSIENT INTERVALS
OR REFER TO PULSE MIDTH (PW)
OR REFER TO PULSE RECURRENCE TIME (PRT)
OR REFER TO PULSE RECURRENCE FREQUENCY WINDINGS OR LOAD RESISTORS OF SINGLE WINDING SAURABLE MZ-19 DO YOU USE OR REFER TO FLUX DENSITY IN SATURABLE TOU REMOVE OR REPLACE SSB TRANSMIT OR RECEIVE 01-07 DO YOU REHOVE OR REPLACE SSB TRANSHIT OR RECEIVE 843 M3-10 DO YOU WORK WITH SQUARE WAVE GENERATORS 844 M3-11 DO YOU WORK WITH RECTANGULAR WAVE GENERATORS 845 01-01 DO YOU WORK ON SINGLE SIDEBAND SYSTEMS IN YOUR INSPECT SSB TRANSMIT OR RECEIVE STSTEMS CLEAM SSB TRANSHIT OR RECEIVE SYSTEMS
ALIGM SSB TRANSHIT OR RECEIVE SYSTEMS
TROUBLESHOOT TO SSB TRANSHIT OR RECEIVE 01-06 DO YOU TROUBLESHOOT TO SSB TRANSHIT OF RECEIVE NZ-15 DO YOU USE OR REFER TO POINT OF SATURATION IN NZ-13 DO YOU USE OR REFER TO RESIDUAL MAGNETISM PCT MBRS RESPONDING OVESO BY SELECTED GRPS SINGLE WINDING SATURABLE REACTORS DY-TSK DUTPUT CONFIGURATION PERCENT MEMBERS PERFORMING DIFFERENTIATING OR SATURABLE REACTORS CONSTANTS (TC) AS WORK 186 086 086 YOU 00 400 100 COMPONENTS COMPONENTS REACTORS EACTORS REACTORS 0 00 00 00-10 00 8 SYSTEMS 47-08 N3-05 43-D3 N3-04 838 M3-05 N3-09 01-05 01-03 01-05 N 841 N3-03 01-04 M3-07 834 846 850 978 N 828 N 829 N 930 1 831 N 832 839 N 842 1 843 158 0 0 652 N 827 ZZ 0

PCT HBRS RESPONDING . TES' BY SELECTED GRPS TASK GROUP SUMMARY

GPSM4C PAGE 31

					à	DYPTSK		988	227	5 P C	3 P C	5 PC	395	5 PC	5 P.C.	234	5 P C	5PC 236		
		-	-	-															-	
853	5	-00 00				TASKS OF		AUDIO AMPLIFIERS	0	٠	7	•	0	10	0	0	0	0		
	01-10			PERFORM		SKS ON		BALANCED MODULATORS	0	•	~	•	0	01	0	0	0	0		
958	11-10			PERFORM		TASKS ON		CARRIER OSCILLATORS	0	7	0	•	3	0	0	0	0	0		
854	1 01-12			PERFORM				LC FILTERS	0	2	0	•	0	0	0	0	0	0		
857	101-13			YOU PERFORM				CRYSTAL FILTERS	0	7	0	9	0	10	0	0	0	0		
484		00	1	YOU PERFORM				MECHANICAL PILTERS	0	7	0	4	0	In	0	0	0	0	-	
				***				200111111111111111111111111111111111111	0			, ,	c	-	0	•				
									0		3 6			-	0	0	0			
•				The state of the s				ALALES .	3 0	•		•	•	0.						
9.				FERTORN		TASKS ON		DRIVERS	0	7	0	•	0	0	0	0	0	0		
862				PERFORM	-			POWER AMPLIFIERS	0	7	0	•	0	0	0	0	0	0		
863	1-10			TOU PERFORM	4 L	TASKS ON	\$58	RF AMPLIFIERS	0	2	0	•	0	10	0	0	0	0		
	01-20	20 00		YOU PERFORM				FREGUENCY CONVERTERS	0	2	0	•	0	10	0	0	0	0		
865	101-21		YOU	YOU PERFORM				IF AMPLIFIERS	0	7	0	•	0	10	0	0	0	0		
998	01-22		YOU	PERFORM	A TA	SKS DI		DEMODULATORS	0	7	0	•	0	10	0	0	0	0		
867		23 00	100	01-23 DO YOU PERFORM		TASKS ON		DON . T RE	0	~	0	•	0	-	0	0	0	0		
	3.	SYSTEM STAGES	STAG	53																
868		24 00	100	USE OR	A E F	ER TO	SELE	FADING	0	7	0	•	0	0 1	0	0	0	0		
840		25 00	YOU	01-25 DO YOU USE OR REFER TO PEAK POWER	REF	F # TO	PEAK		0	7	0		0	-	0	0	0	0		
870		26 00	100	USF OR	REF	F TO	FRED	STABILITY	0	~	0	•	0	-	0	0	0	0		
87.		27 00	100	01-27 DO YOU USE OR REFER	REF	ER 10	RESP	TO RESPONSE CURVES FOR	0	7	٥		0	10	0	0	0	0		-
		DINGN	TH F	BANDWIDTH FILTERS													-			•
872		28 00	100	CALCUL	ATE	PEAK	OWER	OR EFFECTIVE POWER OF SSB O	•	7	0	•	0	10	0	0	0	0		
	18	TRANSMITTERS	TTER	S												-		-	-	-
873		20 DC	YOU	01-29 DO YOU TRACE SIGNALS OR CURRENT	S 1 6 N	ALS OF	AUD S	RENT PATHS THROUGH SSB D	0	7	0	•	0	10	0	0	0	0		
	-	ANSH	TTER	TRANSMITTER SCHEMATIC DIAGRANS	110	DIAGR	SHI						•		•	•		,		-
-	-	200	3	DISTORD TOO THACE STONALS ON COMPEN	20 0	462 0	200	AEN TAINS INROUGH 358	-	•	•	•	•	0,	•	•	0	•		
1	2		2	RECEIVER SCHEMATIC DIAGRAMS	4	6RAMS			1	1		-		1		-	1		١	١
675	-20	10	201	PORK	5	L 36 H	1000	TION STATEMS IN TOUR	•	?	•	00	•	0	•	=	*	•		
-		PRESENT	807	- 1												1	,		-	-
		00 70-70			2	126	1000	200 2121673	;;	•	::		2 .	0		• •		•		
		3	3		100	100	LAT	CLEAN POLSE MODULATION STRIKES	;	2 .			**	2	2					
		00	201		LOCA	100 H	LATI		5	•	:	0	35	0.	2	• •	•		NO	_
		00 50-70	200		ESHO	0	570	OLATION ST	5		80	00	25	0	2 6	•		0		-
9		00 00 00-70	2	MOUBLESHOOT TO PULSE HOD	ESHO	10	200	OLATION STSTEM	?	•	2	87	20	0	2	•	•		UP I	
		COMPONENTS	2					211111111111111111111111111111111111111	1	0	7.6	2		3		7	1		nac	
				STORE OF STATE OF STA				1000	; ;		::			2	30	•	•	, c		
	•				5			200000000000000000000000000000000000000						2	2			-	LEN	
36.		05-00 00 400	400	MORK ON PULSE-AMPLITUDE M		SF - 4	71.17	UDE MODULATION (PAN) 25	1.5	1.0		•	*	30	50	0	0	0		
		SYSTEMS										-								
88		05-10 00	100	MORK ON PULSE-DURATION	1	10-357	PATI	ON MODULATION (PDM) 25	15	9 !	•	6-	=	30	0	0	0	0		
		SYSTEMS																		
8 8 5		05-11 00	701	-		PULSE-P051710N	11150	ON MODULATION (PPH)	•	0	•	13	1	10	20	0	0	0	-	
		02-12 00	A A	A HUGON SOOT IN THE MO NEON		17.15	*	ATTOM (PCM) SYSTEMS	31	0	•	:		-	06	0	o	0		
		05-13 00	YOU			100 34	8126	ATION SYS	•		,	::	•	2 -	20	0	0	0		
																	,			
,		14 00	100	02-14 DO YOU WORK ON		DON'T REPENBER IN	HENB	ICH TYPE OF	23	20	20	10	•	20	0	•	•	0		

ANTENNAS SPC 235 :: 5Pc • --= 2: -: :: Ē GPSHIC PAGE 5PC * 5.0 Ē ~ • = Š = ~ Ŧ = = = = = = :: USE OR REFER TO PULSE RECURRENCE TIME (PRT)
USE OR REFER TO PULSE MIDTH (PW)
USE OR REFER TO PULSE SHAPE
USE OR REFER TO AVERAGE POWER
USE OR REFER TO AVERAGE POWER
CALCULATE PULSE RECURRENCE TIME (PRT) OR PULSE 0 911 02-37 DO VOU USE FORMULAS TO CALCULATE AVERAGE POWER OR PEAK POWER OF PULSE MODULATION TRANSMIT STSTEMS 0 912 02-38 DO VOU TRACE SIGNALS OR CURRENT PATHS THROUGH PULSE 0 913 02-39 DO YOU TRACE SIGNALS OR CURRENT PATHS THROUGH PULSE RECURRENCE PREQUENCY (PRF)
0 910 02-34 DO YOU MEASURE PULSE RECURRENCE TIME (PRT) OR PULSE 02-22 DO YOU PERFORM TASKS ON PULSE MODULATION SYSTEM RF 02-28 DO YOU PERFORM TASKS ON PULSE MODULATION SYSTEM DON'T REMEMBER WHICH PULSE MODULATION SYSTEM STAGES 02-29 DO YOU USE OR REPER TO PULSE RECURRENCE PREGUENCY 0 890 02-16 DO YOU PERFORM TASKS ON PULSE MODULATION SYSTEM CHARGING DIODES
0 891 02-17 DO YOU PERFORM TASKS ON PULSE MODULATION SYSTEM 2-19 DO YOU PERFORM TASKS ON PULSE HODULATION SYSTEM SWITCHES SUCH AS GAS THYRATRONS 2-20 DO YOU PERFORM TASKS ON PULSE HODULATION SYSTEM PULSE TRANSFORMERS 12-26 00 YOU PERFORM TASKS ON PULSE MODULATION SYSTEM VIDEO AMPLIFIERS 02-27 DO YOU PERFORM TASKS ON PULSE HODULATION SYSTEM O 889 02-15 DO YOU PERFORM TASKS ON PULSE MODULATION SYSTEM O 892 02-18 DO YOU PERFORM TASKS ON PULSE MODULATION SYSTEM 1-21 DO YOU PERFORM TASKS ON PULSE MODULATION SYSTEM RANSMITTER TUBES DO YOU PERFORM TASKS ON PULSE MODULATION SYSTEM S DO YOU PERFORM TASKS ON PULSE MODULATION SYSTEM 02-24 DO YOU PERFORM TASKS ON PULSE MODULATION SYSTEM MODULATION RECEIVER SCHEMATIC DIAGRAMS
3-01 DO YOU WORK WITH ANTENNAS IN YOUR PRESENT JOB
3-02 DO YOU INSPECT ANTENNAS DY-15K RECURRENCE FREGUENCY (PRF OF 11 02-37 DO YOU UST POWER VIDED AMPLIFIERS PULSE FORMING NETHORKS PREQUENCY CONVERTERS TASK GROUP SUNNARY PERCENT MEMBERS PERFORMING AMPLIFIERS 0 914 03-01 902 02-2 8 4 4 949 0 668 0 6 8 0 968 0 0 897 106 0 .

GPSM4C PAGE

8 0 0000000 0 0 0 0 0000 000 0 0 0 0 0 0 0 0 0 - 2 92 . ~ . ~ ~ ~ ~ ~ ~ ~ 29 29 ~ = = = 234 = = = 353252 = 0 0 0 3 0 20 20 9 0 9 0 20 • 30 90 0 0 500-~ 0 0 a. 0 0 23 25 13 • 2 2 - 200 • 7 25 • -5 3 = = • 0 3 : 3 53 = ; 0 0 9 2 52 57 36 57 2 2 2 5 0 0 0 • 2 • 0 . 2222525 52 13 . . 3 2.0 0 -25 -79 0 916 03-03 DO YOU CLEAN ANTENNAS
0 917 03-09 DO YOU ELECTRICALLY ALIGN ANTENNAS
0 918 03-09 DO YOU ELECTRICALLY ALIGN ANTENNAS
0 919 03-04 DO YOU ELECTRICALLY ALIGN ANTENNAS
0 920 03-04 DO YOU TROUBLESHOOT TO ANTENNAS
0 920 03-05 DO YOU TROUBLESHOOT TO ANTENNAS
0 922 03-09 DO YOU RENOVE OR INSTALL ANTENNAS
0 922 03-10 DO YOU USE OR REFER TO TECHNICAL DATA CONTAINING
NEPRESENTATIONS OF E OR ELECTRIC FIELD LINES
0 924 03-11 DO YOU USE OR REFER TO TECHNICAL DATA CONTAINING
NEPRESENTATIONS OF HOR MAGNETIC FIELD LINES
1 N RELATION TO THE ELECTRIC LINES OF FORCE FOR ANTENNAS
0 924 03-12 DO YOU DETERMINE TO THE GENERAL RULE THAT ANTENNAS
1 N DUCTIVE LOADS TO THE GENERAL RULE THAT ANTENNAS
0 927 03-19 DO YOU USE OR REFER TO THE GENERAL RULE THAT ANTENNAS
0 927 03-19 DO YOU USE OR REFER TO THE GENERAL RULE THAT ANTENNAS
0 927 03-19 DO YOU USE OR REFER TO THE GENERAL RULE THAT ANTENNAS 928 03-15 DO TOU USE OR REFER TO THE GENERAL RULE THAT ANTENNAS WHICH ARE SHORTER THAM A HALF-WAVE ACT AS CAPACITIVE LOADS 0 939 03-26 DO YOU USE OR REFER TO THE TIME PHASE OF ELECTRIC (E)
AND MAGNETIC (H) COMPONENTS IN ANTENNA RADIATION
0 940 03-27 DO YOU USE OR REFER TO THE TIME PHASE OF ELECTRIC (E)
AND MAGNETIC (H) COMPONENTS IN ANTENNA INDUCTION FIELD
0 941 03-28 ARE ANY OF THE ANTENNAS YOU MORK ON LINEARLY 943 03-30 DO TOU MEASURE OR DETERNINE THE POLARITY OF ANTENNAS ò 03-31 DO TOU CONSTRUCT, OR MAKE THE CALCULATIONS NECESSARY TO CONSTRUCT, ANTERNAS OF CORRECT LENGTH FOR 03-14 DO YOU WORK WITH HERTZ ANTENNAS
03-15 DO YOU WORK WITH BROADSIDE ARRAYS
03-19 DO YOU WORK WITH END-FIRE ARRAYS
03-20 DO YOU WORK WITH CANDID ARRAYS
03-21 DO YOU WORK WITH COLLINEAR ARRAYS
03-22 DO YOU USE OR REFER TO THE TERM ELECTROMAGMETIC
INDUCTION FIELDS WHEN WORKING WITH ANTENNAS
03-23 DO YOU MEASURE ELECTROMAGNETIC INDUCTION FIELDS 0 937 03-29 DO TOU USE OR REFER TO THE TERM ELECTRONAGNETIC RADIATION FIELDS WHEN WORKING WITH ANTENNAS 0 938 03-25 DO TOU MEASURE ELECTRONAGNETIC RADIATION 0 942 03-29 ARE ANY OF THE ANTENNAS YOU WORK ON CIRCULARLY 0Y-15K TASK GROUP SUMMANY PERCENT NEMBERS PENFORMING SPECIFIC MAVELENGTHS FIELDS OF ANTENNAS TO THE GENERATOR TOU WORK ON POLARIZED POLARIZED TO THE *** 135 936

PERCENT NEMBERS PERFORMING

GROUP SUMMARY

SPSH4C PAGE

LEVINOWISSION FINES 5°C 27.2 = • 22.5 5PC 227 ---22 72 0 946 03-33 DO THE ANTENNA ARRAYS YOU WORK WITH CONTAIN PARASITIC ELEMENTS SENVING AS DIRECTORS 0 947 03-34 DO THE ANTENNA ARRAYS YOU WORK WITH CONTAIN PARASITIC ELEMENTS SERVING AS REFLECTORS CURRENTS IN TRANSMISSION LINES 954 PI-09 DO YOU REFER TO OR USE RADIATION LOSS IN TRANSMISSION TRANSMISSION LINES P 955 PI-03 DO YOU REFER TO OR USE SKIN EFFECTS OF HIGH FREQUENCY OR REFER TO LEAKAGE LOSSES IN TRANSMISSION DO THE ANTENNA ARRAYS YOU WORK WITH CONTAIN PARASITIC MORK WITH THIN LEAD TRANSMISSION LINES
MORK WITH OPEN TWO-WIRE TRANSMISSION LINES
WORK WITH FLEXIBLE COAMIAL CABLE TRANSMISSION 03-36 DO TOU WORK ON UNIDIRECTIONAL ANTENNAS
03-37 DO TOU WORK ON BIDIRECTIONAL ANTENNAS
03-39 DO TOU WORK ON BIDIRECTIONAL ANTENNA ARRAYS
03-39 DO TOU WORK WITH ROTAR ANTENNA ARRAYS
03-39 DO TOU WORK WITH ROTAR ANTENNA ARRAYS
03-39 DO TOU WORK WITH TRANSSION
03-30 DO TOU WORK WITH TRANSSION W MAVEGUIDES AS TRANSMISSION LINES 954 PI-02 DO YOU REFER TO OR USE COPPER LOSS OR 12R LOSS IN O 948 03-35 DO THE ANTENNA ARRAYS YOU WORK WITH CONTAIN DON'T REMEMBER WHAT KIND OF ELEMENTS WORK WITH THISTED PAIR TRANSMISSION LINES OR REFER TO DIELECTRIC LOSS IN 07-15K TRANSMISSION LIN 357 PI-05 BO YOU USE DO TOU 00 400 -1-0 962 61-10 150 61-07 1-00 ...

1-18 DO YOU PERFORM THE CALCULATIONS MECESSARY TO DETERMINE THE IMPEDANCE AND LENGTH OF QUARTER - MAYELENGTH MATCHING TRANSFORMERS TO MATCH TRANSMISSION LINES TO LOADS 969 PI-17 DO YOU CALCULATE STANDING WAVE RATIOS (SWR) OF TRANSMISSION LINES 970 6

a

a

.

.0

do

do

d a a

a a

944 PI-12 DD YOU TROUBLESHOOT TRANSHISSION LINES
745 PI-13 DG YOU ANALYZE VOLTAGE OR CURRENT WAVEFORMS IN
TRANSHISSION LINES TO DETERMINE THE TYPE OF TERMINATION
(OPEN, SHORTED, CAPACITYE, INDUCTIVE)
946 PI-14 DG YOU SELECT APPROPRIATE TRANSHISSION LINES
947 PI-15 DG YOU USE OR REFER TO SCHEMATIC SYNBOLS FOR LINE
7 ERHIMATIONS IN TERMS OF CIRCUIT TERMINATIONS
948 PI-16 DG YOU MEASURE STAMDING WAVE RATIOS (SR) OF

DO YOU WORK WITH RIGID COAXIAL CABLE TRANSMISSION

963 P

WAVEGUIDES AND CAVITY RESONATORS 0 0 0 0 0 0 0 0 0 0 0 00 000 000000000000 2 9 C 0 0 0 0 0 0 0 0 0 0 0 . 0 2 2 3 0 0 0 0 0 0 0 0 0 0 0 . 0 -=0 202222 22 5pc 0 0 0 0 0 0 0 0 0 00 0 100 000000000 3000 9000 a 0 0 a a a a d 00 08 5 p.C 0 0 0 0 0 0 ~ 0 20 3PC 0 0 a 35 0 a a 0 a 0 a 40 88 GPSM4C PAGE 7 ~ ~ . 69 959 ~ 4 4 9 9 9 9 0 0 00 5 0 2 0 17 0 0 0 0 0 0 0 0 0 0 0 00 2 DO YOU INSECT WAVEGUIDES OR CAVITY RESUMATORS
DO YOU CLEAM WAVEGUIDES OR CAVITY RESOMATORS
DO YOU CLEAM WAVEGUIDES OR CAVITY RESOMATORS
DO YOU FURST WAVEGUIDES OR CAVITY RESOMATORS
DO YOU PURSE WAVEGUIDES OR CAVITY RESOMATORS
DO YOU REMOVE OR INSTALL COMPLETE WAVEGUIDES
DO YOU REMOVE OR INSTALL DUMMY LOADS
DO YOU REMOVE OR INSTALL BENDS
DO YOU REMOVE OR INSTALL BENDS
DO YOU REMOVE OR INSTALL BENDS TO LOADS USING MATCHING TRANSFORMERS

972 PI-20 DO YOU WORK WITH TRANSMISSION LINES WHICH ARE MATCHED

973 FI-21 DO YOU SELECT THE TYPE OF TRANSMISSION LINE NEEDED

973 PI-21 DO YOU USE OR REFER TO THE FERM CHARACTERISTIC

974 PI-22 DO YOU USE OR REFER TO THE TERM CHARACTERISTIC 982 PI-30 DO YOU WORK WITH RESONANT TRANSMISSION LINES 483 PI-31 DO YOU WORK WITH TRANSMISSION LINES WHICH ARE MATCHED DO YOU WORK WITH TRANSHISSION LINES WHICH ARE HATCHED 0 P 978 PI-26 DO YOU COMPUTE THE ELECTRICAL LENGTH OF TRANSMISSION LINES FOR PARTICULAR FREQUENCIES
P 979 PI-27 DO YOU CONSTRUCT TRANSMISSION LINES OF PARTICULAR
ELECTRICAL LENGTH FOR GIVEN FREQUENCIES
P 980 PI-28 DO YOU USE ON REFER TO THE GENERAL RULE THAT AS THE FREQUENCY INCREASES AND THE PHYSICAL LENGTH OF RANSMISSION LINES REMAIN CONSTANT, THE ELECTRICAL LENGTH 9 P 977 PI-25 DO YOU USE OR REFER TO THE TERM VELOCITY FACTOR IK! P 975 PI-23 DO YOU CALCULATE THE CHARACTERISTIC IMPEDANCE (20)
TRANSMISSION LINES P 974 PL-24 DO YOU USE OR REFER TO THE TERM CUTOFF FREQUENCY TRANSMISSION LINES P 981 PI-29 DO YOU WORK WITH NONRESONANT (FLAT) TRANSHISSION USING STUB MAICHING. YOU WORK MITH MAVEGUIDES OR CAVITY RESONATORS OR INSTALL DIRECTIONAL COUPLERS
OR INSTALL BIDIRECTIONAL COUPLERS
REFER TO "A" MALL OF MAYEGUIDES INSTALL CHOKE JOINTS INSTALL ROTATING JOINTS BY SELECTED GRPS DY-TSK OF TRANSMISSION LINES TASK GROUP SUMMARY PERCENT MEMBERS PERFURNING REHOVE PCT MBRS RESPONDING .YES. REMOVE PRESENT INCREASES LINES 01-24 P2-14 985 P2-02 P2-05 2-13 61-24 P2-03 11-24 11-12 P2-07 12-00 91-24 12-17 *** 1001 - 2 666 ... 566 866 447 P 1000

2

-

33,

GPSH4C PAGE 36

PR-20 DO TOU USE OR REFER TO CHOUSE WAVEGUDES 17 DO TOU USE OR REFER TO CHOUSE WAVEGUDES 22-20 DO TOU USE OR REFER TO CHOUSE REFER TO CHOUSE WALLE TO WAVEGUDES 23-20 DO TOU USE OR REFER TO CHOUSE WALLE TO WAVEGUDES 24-20 DO TOU USE OR REFER TO CHOUSE WALLE WALL OF 17 DO S 11 DO D D D D D D D D D D D D D D D D D	P2-20 00 YOU USE OR		25¢	227	2 2 8	SPC 229	\$₽¢	SPC 231	5Pc	SPC 233	234	SPC 235	29C	
PR-22 DO TOU USE OR REFER TO CUCHOFF FREQUENTY DEFENDENCY DEFENDEN		ALL OF	1.1	0	-	=	•	•	c	0	0	0	0	
TATE OF THE CONTRIBUTE OF THE CONTRIBUTION OF THE CONTRIBUTE OF TH	P2-21 DO YOU USE OR REFER TO	F FREQUENCY OF	-12	0	•	='	0	='	0	0	0	0	0 0	
PRESIDE TO TOU USE OR REFER TO POWER-DETERNINING WALL OF 17 0 6 11 0 6 0 0 0 0 0 0 0 0 0 0 0 0 0 0	MAN TO TOO USE OR REFER TO	ENCY-DETERNININ		0	•		0	•	0	3	0	0	0	
MAYEGIDES SECOND SECRET TO RECERTIC FIELD BOUNDARY 17 0 6 111 0 6 0 0 0 0 0 0 0 0 0 0 0 0 0 0	P2-23 DO YOU USE OR	-DETERNINING WALL	17	0	2	1	0	-	0	0	0	0	0	
CONDITIONS TO STATE TO WASKELLE FOR MASKELLE FIELD BOUNDARY TO STATE TO WASKELLE FOR MASKELLE FOR	MAYEGUIDES	RIC FIELD	17	0	•	=	•	•	c	0	٥	0	0	
CONDITIONS	CONDITIONS								•					
PA-26 DO TOU USE OR REFER TO DUPLERER FIELD BOUNDARY PA-36 DO TOU USE OR REFER TO THE GENERAL RULE THAT NOST AVECUDES ARE ARE MARE HALF A """ "" "" "" "" "" "" "" "" "" "" ""	F2-25 DO YOU USE OR		17	0	•	=	a	•	a	0	0	0	0	
CONCINUOS ON REFER TO THE GENERAL RULE THAT HOST 25 0 3 9 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	P2-26 DO YOU		35	0	1	•	a	•	d	0	0	0	0	-
## VEGUIDES ARE MADE WITH A "B" MALL SIZE OF "," MAVEENERS ## VEGUIDES ARE MADE WITH A "B" MALL SIZE OF "," MAVEENERS ## VEGUIDES ARE MADE OF RECENTED WITH THE MATERIAL (SUCH AS BRASS) ## ALS BAN WERENE PR-24 ARE TOO CONCERNED WITH THE MATERIAL (SUCH AS BRASS) ## ALS BAN WERENE ## ALS BO TOU USE OF RECENTED WITH THE MATERIAL (SUCH AS BRASS) ## ALS BO TOU USE THE LEMETH OF A MAVEEUIDE FOR SPECIFIC # 0 1 4 0 1 0 0 0 ## ALS BO TOU USE THE RIGHT HAMD RULE 10 DETERMINE THE BO TOU COMPAND OF THE MAYEGUIDES ## ALS BO TOU USE OF REFER TO THE THE PHASE OF PEAK "E" OR 8 0 2 2 0 0 0 0 0 ## ALS BO TOU USE OF REFER TO THE SPACE QUADRATURE OF "E" OR 8 0 2 2 0 0 0 0 0 0 ## ALS BO TOU USE OF REFER TO THE SPACE QUADRATURE OF "E" OR 8 0 2 2 0 0 0 0 0 0 ## ALS BO TOU USE OF REFER TO THE SPACE QUADRATURE OF "E" OR 8 0 2 2 0 0 0 0 0 0 ## ALS BO TOU USE OF REFER TO THE SPACE QUADRATURE OF "E" OR 8 0 2 2 0 0 0 0 0 0 ## ALS BO TOU USE OF REFER TO THE SPACE QUADRATURE OF "E" OR 8 0 2 2 0 0 0 0 0 0 ## SOON WITH THE KIND OF MAYE WITH RESONATORS TOU WORK WITH THE KIND OF MAYE WITH THE SONATORS TOU WORK WITH THE KIND OF MAYE WITH THE KIND OF MAYE WITH THE SONATORS TOU WORK WITH THE KIND OF MAYE WITH THE RESONATORS TOU WORK WITH THE KIND OF MAYE WITH THE SONATORS TOU WORK WITH THE KIND OF MAYE WITH THE SONATORS TOU WORK WITH THE PROBES SHOULD BE REMAINED TO TOU DETERMINE WHERE PROBES SHOULD BE REMAINED TO TOU DETERMINE WHERE PROBES SHOULD BE REMAINED TO TOU DETERMINE WHERE PROBES SHOULD BE WERE WITH THE FORESTHALL DATA OF A CAVITY RESONATORS WITH THE POSTITIONING OF THE WORLD DATA OF		THE BALL BUILT	35	0	-	•	•	0	•	0	0	•	0	
PRESENT OF THE REFERENCE OF THE GENERAL RULE THAT MOST "A" 25 0 3 4 0 3 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0		WALL SIZE OF .7							•					
PRE-27 ARE TO CONCERLED WITH THE HATERIAL (SUCH AS BRASS) PR-27 ARE TO CONCERLED WITH THE HATERIAL (SUCH AS BRASS) BHICH WAYEGUIGES ARE HADE OF THE HATERIAL (SUCH AS BRASS) BHICH WAYEGUIGES ARE HADE OF THE HATERIAL (SUCH AS BRASS) BHICH WAYEGUIGES ARE HADE OF THE HATERIAL OF THE HATERIAL THE TO THE THE HATERIAL OF THE HATERIAL O		RULE THAT MOST	25	0	3		0	3	0	0	0	0	0	
HAICH WAVEGUIDES ARE THOSE OF THE LEGET IS USED TO USE THE LEGET IN THE MATERIAL (SUCH AS BRASS) HAICH WAVEGUIDES ARE THOSE OF THE LEGET IN THE LINES IN WAVEGUIDES PA-31 DO TOU USE OF REFER TO THE THE PHASE OF FEAK "E" OR 8 0 2 2 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0		N 512E. WITH .35												
MATCH WAVEGULDES ARE MADE OF THE LEGGE OF SPECIFIC 6 0 3 9 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0		MATERIAL (SUCH AS		0	•	•	0	•	a	0	•	•	0	
INSTALLATION		OF A WAVEGUIDE FOR	•	0	7	•	0	•	a	0	0	0	0	
PRESTIDENT TO USE THE RIGHT HAND RULE TO DETERMINE THE DIRECTION OF THE PLEAD IN MANGALIDES DIRECTION OF THE PLEAD IN MANGALIDES DO YOU USE OR REFER TO THE TIME PHASE OF PEAK "E" OR 6 0 2 2 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	INSTALLATION													
DIRECTION OF "H" FIELD IN MAYEGUIDES P2-32 DO YOU USE OR REFER TO THE TIME PHASE OF PEAK "E" OR 8 D 2 Z D D D D D D D D D D D D D D D D D	DIRECTION OF PROPAGATION. DIRE	PETERNINE T	•	0	2	~	a	0	9	0	0	0	0	
72-32 DO TOU USE ON REFER TO THE TIME PHASE OF PEAK "E" OR B 0 2 2 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0		UIDES										1		
P2-33 DO YOU MEASURE THE TIME PHASE OF "E" OR "H" LIMES IN B 0 2 2 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0		TIME PHASE OF PEAK "E"	80	•	7	~	0	•	•	0	•	0	•	
MANEGUIDES WANEGUIDES WANEGUIDES P2-35 ARE HIGH POWER PROBES USED ON WAVEGUIDES OR CAVITY P2-35 ARE HIGH POWER PROBES USED ON WAVEGUIDES OR CAVITY P2-35 ARE HIGH POWER PROBES USED ON WAVEGUIDES OR CAVITY P2-35 ARE LOW DOWER PROBES USED ON WAVEGUIDES OR CAVITY P2-36 ARE LOWDOR WITH P2-36 ARE LOWDOR WITH P2-36 ARE LOND WORK WITH P2-37 ARE LOOPS USED ON WAVEGUIDES OR CAVITY RESONATORS P2-38 ARE APERINES (WINDOWS OR IRISES) USED ON WAVEGUIDES P2-39 ARE DOWN TREMENES (WINDOWS OR IRISES) USED ON WAVEGUIDES P2-30 ARE DOWN TREMENES (WINDOWS OR IRISES) USED ON WAVEGUIDES P2-30 ARE DOWN TREMENES (WINDOWS OR IRISES) USED ON WAVEGUIDES P2-30 ARE DOWN TREMENES (WINDOWS OR IRISES) USED ON WAVEGUIDES P2-30 ARE DOWN TREMENES (WINDOWS OR IRISES) USED ON WAVEGUIDES P2-30 ARE DOWN TREMENES (WINDOWS OR IRISES) USED ON WAVEGUIDES P2-30 ARE DOWN TREMENES FROMES SHOULD BE MOUNTED IN P2-40 DO YOU DETERMINE WHERE PROBES SHOULD BE MOUNTED IN WAVEGUIDES OR CAVITY RESONATORS WITHOUT REFERRING TO P2-41 DO YOU DETERMINE THE POSITIONING OF LODPS IN P2-41 DO YOU DETERMINE THE POSITIONING OF LODPS IN	P2-33 DO YOU MEASURE THE TIME	SE OF "E" OR "H" LINES	•	0	7	2	0	0	0	0	0	0	0	
P2-35 ARE HIGH POWER PROBES USED ON MAVEGUIDES OR CAVITY RESONATORS TOW WORK WITH P2-36 ARE LOOPS USED ON WAVEGUIDES OR CAVITY RESONATORS RESONATORS TOW WORK WITH P2-37 ARE LOOPS USED ON WAVEGUIDES OR CAVITY RESONATORS RESONATORS TOW WORK WITH P2-37 ARE LOOPS USED ON WAVEGUIDES OR CAVITY RESONATORS OR CAVITY RESONATORS TOW WORK WITH P2-30 ARE APERTURES (WINDOWS WITH P2-30 ARE DON'T REFERENCE THE KIND OF ENERGY COUPLING USED P2-30 ARE DON'T RESONATORS TOW WORK WITH P2-40 DO YOU DETERMINE WHERE PROBES SHOULD BE MOUNTED IN P2-40 DO YOU DETERMINE WHERE PROBES SHOULD BE MOUNTED IN P2-41 DO YOU DETERMINE THE POSITIONING OF LOOPS IN P2-41 DO YOU DETERMINE THE POSITIONING OF LOOPS IN P2-41 DO YOU DETERMINE THE POSITIONING OF LOOPS IN	MAVEGUIDES PZ-34 DO YOU USE OR REFER	SPACE GUADRATURE OF "E"	•	0	7	2	0	0	0	0	0	0	0	
P2-35 ARE HIGH POWER PROBES USED ON MAVEGUIDES OR CAVITY RESONATORS TOU WORK MITH RESONATORS TOU WORK MITH RESONATORS TOU WORK MITH RESONATORS TOU WORK MITH P2-37 ARE LOOPS USED ON WAVEGUIDES OR CAVITY RESONATORS RESONATORS TOU WORK WITH P2-37 ARE LOOPS USED ON WAVEGUIDES OR CAVITY RESONATORS TOU WORK WITH P2-37 ARE LOOPS USED ON WAVEGUIDES OR CAVITY RESONATORS TOU WORK WITH P2-37 ARE LOOPS USED ON WAVEGUIDES OR CAVITY RESONATORS TOU WORK WITH P2-37 ARE DOINT REFERENCE THE KIND OF ENERGY COUPLING USED P2-39 ARE DOINT REFERENCE THE KIND OF ENERGY COUPLING USED P2-40 DO YOU DETERMINE WHERE PROBES SHOULD BE MOUNTED IN P2-40 DO YOU DETERMINE WHERE PROBES SHOULD BE MOUNTED IN P2-40 DO YOU DETERMINE THE POSITIONING OF LOOPS IN P2-41 DO YOU DETERMINE THE POSITIONING OF LOOPS IN P2-41 DO YOU DETERMINE THE POSITIONING OF LOOPS IN P2-41 DO YOU DETERMINE THE POSITIONING OF LOOPS IN	LINES IN MAVEGUIDES			1				-						
MAVEGUIDES OR CAVITY 25 23 16 14 20 0 <td>P2-35 ARE HIGH POWER PROBES USE RESONATORS YOU WORK WITH</td> <td>ON MAVEGUIDES OR</td> <td>*</td> <td>2</td> <td>52</td> <td>22</td> <td>-</td> <td>•</td> <td>50</td> <td>•</td> <td>•</td> <td>•</td> <td>•</td> <td></td>	P2-35 ARE HIGH POWER PROBES USE RESONATORS YOU WORK WITH	ON MAVEGUIDES OR	*	2	52	22	-	•	50	•	•	•	•	
RESONATORS YOU WORK WITH P2-37 ARE LOOFS USED ON WAVECUIDES OR CAVITY RESONATORS P2-36 ARE LOOFS USED ON WAVECUIDES P2-36 ARE APERTURES (WINDOWS OR IRISES) USED ON WAVECUIDES OR CAVITY RESONATORS TOU WORK WITH OR CAVITY RESONATORS TOU WORK WITH P2-40 DO YOU DETERMINE WHERE PROBES SHOULD BE MOUNTED IN P2-40 DO YOU DETERMINE WHERE PROBES SHOULD BE MOUNTED IN P2-41 DO YOU DETERMINE THE POSITIONINE OF LODPS IN P2-41 DO YOU DETERMINE THE POSITIONINE OF LODPS IN P2-41 DO YOU DETERMINE THE POSITIONINE OF LODPS IN P2-41 DO YOU DETERMINE THE POSITIONINE OF LODPS IN P2-41 DO YOU DETERMINE THE POSITIONINE OF LODPS IN	P2-36 ARE LOW POWER PROBES	WAVEGUIDES OR	52	23	16	•	-	<u>-</u>	20	0	0	0	•	
700 #00K WITH P2-36 ARE APERIURES (WINDOWS OR IRISES) USED ON WAVEGUIDES 50 31 23 22 25 16 40 0 0 0 CAVITY RESONATORS TOU WORK WITH P2-19 ARE DON'T REHEMBER THE KIND OF EMERGY COUPLING USED 50 36 25 24 25 24 30 20 33 35 ON WAVEGUIDES OR CAVITY RESONATORS YOU WORK WITH P2-40 DO YOU DETERMINE WHERE PROBES SHOULD BE MOUNTED IN 6 0 2 2 0 0 0 0 0 0 MAYEGUIDES OR CAVITY RESONATORS WITHOUT REFERRING TO P2-41 DO YOU DETERMINE THE POSITIONING OF LODPS IN 6 0 2 2 0 0 0 0 0 0	P2-37 ARE LOOPS USED ON MAVEGU	80	•	0	5	-	25		20	0	0	0	0	
OR CAVITY RESONATORS YOU WORK WITH P2-39 ARE DON'T REHEMBER THE KIND OF EMERGY COUPLING USED ON WAYEGUIDES OR CAVITY RESONATORS YOU WORK WITH P2-40 DO YOU DETERMINE WHERE PROBES SHOULD BE MOUNTED IN TECHNICAL DATA P2-41 DO YOU DETERMINE THE POSITIONING OF LODPS IN P2-41 DO YOU DETERMINE THE POSITIONING OF LODPS IN	P2-38 ARE APERTURES (WINDOWS OF		80		23	22	25	•	•	0	0	0	0	
P2-39 ARE DON'T REMEMBER THE KIND OF EMERGY COUPLING USED 50 36 25 29 25 29 30 20 33 35 00 MAYGOLDES OR CAVITY RESONATORS YOU WORK WITH P2-40 DO YOU DETERMINE WHERE PROBES SHOULD BE MOUNTED IN 8 0 2 2 0 0 0 0 0 0 0 TECHNICAL DATA RESONATORS WITHOUT REFERRING TO TECHNICAL DATA DO YOU DETERMINE THE POSITIONING OF LODPS IN 8 0 2 2 0 0 0 0 0 0 0 0														
P2=40 DO YOU DETERMINE WHERE PROBES SHOULD BE MOUNTED IN 6 0 2 2 0 0 0 0 0 0 0 0 WAYEGUIDES OR CAVITY RESONATORS WITHOUT REFERRING TO TECHNICAL DATA DATA DATA DATA THE POSITIONING OF LODPS IN 6 0 2 2 0 0 0 0 0 0 0	•	OF ENERGY COUPLING S YOU WORK WITH	8	36	52	54	52	5.2	30	20	33	35	0	
TECHNICAL DATA P2-41 DO YOU DETERMINE THE POSITIONING OF 100PS IN 6 0 2 2 0 0 0 0 0	•	S SHOULD BE MOUNTED ITHOUT REFERRING TO	•	0	2	2	0	0	0	0	0	0	•	
2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2	•	ITIONING OF LOOPS IN	•	0	~	~	٥	0	a	0	0	۰	0	

37

GPSM4C PAGE

TASK GROUP SUMMANY PERCENT MEMBERS PERFURNING

2 MICROWAVE AMPLIFIERS AND OSCILLATORS 0 0 0000 5PC 0 0 0 0000 0 0 000000 0000000 000000 ... 3 PC 0 0 000000 20 69 000000 000000 ~ * 12 5PC 0 95 0 4 0 0 0 0 0 = -5PC 233 0 0 0 0 0 09 20 9 100 0000 0 00000 200000 20 000000 5PC 232 2000 70 0 0 20 20 3000 30 a 22222 0000000 000000 231 0 29 2 7-17-0 • 32 27 90 32 : 5Pc 0 40 2.0 6 20-0 20 52 2000 04.00 8 5 PC 14 • 24 705 20 3.6 29 7707 800 27 5 P C 4 ~ 11 2 = 23 20 13 0 0 5PC 000 0 5.4 23 79 20000 23 23 2 5 PC 0 1 67 45 27 17 7 47 0 5 807708 200 RESONATORS YOU WORK WITH
PLOZO PZ-45 ARE DON'T REMEMBER THE KIND OF JOINTS USED IN
MAYEGUIDES OR CAVITY RESONATORS YOU WORK WITH
PLOZO PZ-45 DO YOU TONE CAVITY RESONATORS USING CAPACITIVE TUNING
PLOJO PZ-47 DO YOU TONE CAVITY RESONATORS USING YOU'ME TUNING
PLOJO PZ-49 DO YOU TONE CAVITY RESONATORS USING YOU'ME TUNING
PLOJO PZ-49 DO YOU TONE CAVITY RESONATORS USING YOU'ME TUNING IZ DO YOU DETERMINE THE POSITIONING OR SIZE OF APERTURES WAVEGUIDES OR CAVITY RESONATORS WITHOUT REFERRING TO OR REFER TO PRINCIPLE OF ELECTRON VELOCITY WORK WITH UP-CONVERTER PARAMETRIC AMPLIFIERS REMOVE OR REPLACE COMPLETE KLYSTRON OR TWIT REMOVE OR REPLACE KLYSTRON OR TWIT COMPONENTS THE METHOD OF TUNING
PLO33 P2-50 DO YOU MEASURE THE FREQUENCY OF SIGNALS IN CAVITY
RESONATORS REFER TO INTERELECTRODE CARACITANCE REFER TO ELECTRON TRANSIT TIME REFER TO LEAD INDUCTANCE REFER TO RF LOSSES IN EXTERNAL 0 RESONATORS YOU WORK WITH PLOZY P2-44 ARE ROTATING JOINTS USED IN WAVEGUIDES OR CAVITY WITH KLYSTRONS. CLEAN KLYSTRONS OR TWT TUNE KLYSTRONS OR TWT ELECTRICALLY TUNE KLYSTRONS OR TWT MECHANICALLY PERFORM OPERATIONAL CHECKS OF KLYSTRONS 3-DI IN YOUR PRESENT JOB DO YOU WORK MITH KLYSTRONS TRAVELING MANE TUBES (TMT), PARAMETRIC AMPLIFIERS, TECHNICAL DATA PIOZE IN MAVEGUIDES OF CAVITY MORK WITH TRAVELING-WAVE TUBES (TWT)
MORK WITH NONDEGENERATIVE PARAMETRIC USE OR REFER TO ELECTRON BUNCHING WORK WITH TWO-CAVITY RLYSTRONS WORK WITH THREE-CAVITY KLYSTRONS TROUBLESHOOT KLYSTROMS OR THT CLEAN PARMETRIC AMPLIFIERS ADJUST PARAMETRIC AMPLIFIERS WORK WITH REFLEX KLYSTRONS INSPECT KLYSTRONS OR THT WORK WITH MAGNETRONS DY-TSK *** 1350 USE USE P1038 P3-05 DO YOU USE 00 400 22222 P1035 P3-02 DO YOU P3-04 DO YOU 100 1000 YOU 400 200 100 100 AMPLIFIERS MODULATION CIRCUITRY 200 000000 000 8 00 P1034 P3-01 53-03 P3-07 01-64 13-13 P 3-14 67-15 P3-17 P 3-18 P3-14 P3-20 P3-21 P3-22 P3-25 P1053 P1036 P1039 P1045 \$101d 1058 P1025 01014 61043 P1048 61014 P1050 1001 1047 1042 1044 15014 P1052

GPSM4C PAGE 38

TASK GROUP SUMMARY

The state of the s	DY-15K	226 226	227	5PC 228	5PC	5PC	SPC 231	5°C 232	SPC 5	234 2	235 S	3PC
P1059 P3-26 00 TOU TUNE	E PARAMETRIC AMPLIFIERS	35	0	23		38	9.	50	20	0	0	0
P3-27 DO YOU	RH OPERATIO	•	٥	ē	58	36	23	0	•	٥	0	0
-	TROUBLESHOOT PARAMETRIC AMPLIFIERS	8	0	28	54	38	22	0	0+	0	0	0
P3-29 00 YOU	PLACE COMPLE		0	33	3	38	30	20	20	0	0	0
AMPLIFIER	STATE OF STREET STREET STREET STREET	a	c	•	,		4	c	00			•
COMPONENTS	1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	•		-		0	•	•	2	,	•	•
-	INSPECT MAGNETRONS	5.6	9.6	51	20	75	•	0.0	08	:	47	0
P3-32 DO YOU		17	38	20	22	13	•	10	20	39	-	0
P3-33 DO YOU	ADJUST HAGNETRONS	28	95	59	15	8	2	90	001	3.8	5.0	0
P3-34 DO YOU		28	* 5	57	53	69	2.8	90	80	33	35	0
P3-35 DO 700	-	47	2		28	8	2.0	0,	00	-	9	0
P3-34 DO 700	AGNETRONS	80	23	*		• •	•	20	90	:	17	0
P3-37 DO YOU	ACE COMPLETE M	2.0	95	52	•	75	•	9	80	20	53	0
400	LACE HA	0	0	0	٠	-3	•	10	20	=	12	0
P1072 P3-39 DO YOU USE	O THE	•	0	•	•	•	•	a	0	0	0	0
THO-CAVITY KLYSTRONS COLLE	ECTOR PLATES	•		,					•	,		•
THOSE AND THOSE AND THE PARTY AND THE PARTY PART	TRONG CATCHER CAVITIES	•	>	^	•	4	•	a	5	0	0	>
P1074 P3-41 00 YOU USE OR REFER	0	•	0	-	*	٥	-	a	0	0	0	0
TWO-CAVITY KLYSTRONS CATCHE	ER GRI	•	c	:	:	:	4					
THO-CAVITY KLYSTRONS FEEDR	ACK LOOPS	•	•	•	2	61	4	9	2	0	0	2
P1076 P3-43 DO YOU USE OR REFER T		8	0	2	•	4	•	a	0	0	0	0
TMO-CAVITY KLYSTNOMS DRIFT	TROMS DRIFT SPACES OR REFER TO THE OPERATING PRINCIPLES OF	30	•	•	•	o	•	٥	3	0	0	0
THO-CAVITY KLYSTRONS BUNCH	ER GRIDS		,									
TANAMA TO TOO DO TO STAN TO THE PROPERTY OF THE PROPERTY AND THE PROPERTY	THOUGHAILY KLANDON BUNCHED CALLER	•	0	•	•	•	•	a	0	0	0	0
PIOTA PARAGO DO TOU CASE ON REFERS	ON REFER TO THE OPENATING PRINCIPLES OF	•	0	13	2	2	*	10	0	0	0	0
PIOSO P3-47 DO TOU USE ON REFER T	6	17	0	15	•		•	0	0	0	0	0
TMO-CAVITY KLYSTRONS CATHO	TROMS CATMODES OR DEFEN TO THE OPERATIONS PRINCIPLES OF	:	=	:		4	:	•		•		c
	(REFLECTOR) PLATES				•	-					•)
P1082 P3-49 00 700 USE	OR REFER TO THE OPERA	1.7	•	8		6	•	3 D	9	0	0	0
P1083 P3-50 D0 YOU USE		1.1	0	5	•	4	•	a	02	0	0	0
REFLEX KLYSTRON	GRID CAVITY GAPS	:	•	;	:							
REFLEX KLYSTRON	RESONANT CAVITIES	2	4	•	25	57	25	0	2	0	0	9
P1085 P3-52 DO 700 USE REFLEX KLYSTROM	MAGNETIC C	1.1	0	•	•	•	•_	20	02	0	0	0
P.1086 P3-53 DO 700 USE	OR REFER T	•	1 5	20	22	2	•	a	02	0	0	0
FIGET P3-54 GO YOU USE OR REFER		:					1					

REGISTERS 0 0 0 0 0 ٥ 0 0 0 0 0 . 0 0 0 0 0 0 0 0 0 0 0 0 0 0 17 17 5PC 233 0 20 0 0 0 0 20 0 0 0 0 0 0 0 20 2000000 20 20 5 P C 0 0 a 0 0 a 0 a 0 0 20 0 a O 0 a 0000000 SPC 2 7 5 PC 0 a 0 a 0 0 a 0 O 0 25 7 30 GPSH4C PAGE 5 PC 100 -0 = 3 2 8 0 20 in 0 0 S 0 0 SPC 2 0 0 0 0 0 0 0 0 O 0 0 33 52 17 17 CAVITIES P3-67 DO TOU PERFORM TASKS ON PARAMETRIC AMPLIFIER VARACTOR DO YOU PERFORM TASKS ON PARAMETRIC AMPLIFIER REVERSE-PID97 P3-64 DO YOU PERFORM TASKS ON PARAMETRIC AMPLIFIER FERRITE DO YOU PERFORM TASKS ON PARAMETHIC AMPLIFIER FERRITE 90 40 PIOSS P3-65 DO YOU PERFORM TASKS ON PARAMETRIC AMPLIFIER SIGNAL PIGGS P3-55 DO YOU USE OR REFER TO THE OPERATING PRINCIPLES OF REFLEX KLYSTROM OUTPUT LEADS
PIGGS P3-56 DO YOU USE OR REFER TO THE OPERATING PRINCIPLES OF TRAVELING-MAVE TUBES FILAMENTS
PIGGO P3-57 DO YOU USE OR REFER TO THE OPERATING PRINCIPLES OF TRAVELING-MAVE TUBES CATHOORS
PIGGI P3-58 DO YOU USE OR REFER TO THE OPERATING PRINCIPLES OF TRAVELING-MAVE TUBES MODULATOR GRIDS PID99 P3-61 DO YOU USE OR REFER TO THE OPERATING PRINCIPLES OF TRAVELING-WAVE TUBES COLLECTORS
PID95 P3-62 DO YOU USE OR REFER TO THE OPERATING PRINCIPLES OF TRAVELING-WAVE TUBES MAGNETS PIG92 P3-59 DO YOU USE OR REFER TO THE OPERATING PRINCIPLES OF TRAVELING-WAVE TUBES ANDDES PIGGS P3-60 DG YOU USE OR REFER TO THE OPERATING PRINCIPLES OF TRAVELING-MAVE TUBES HELIXES P3-66 DO YOU PERFORM TASKS ON PARAMETRIC AMPLIFIER IDLER PIDGE P3-63 DO YOU USE OR REFER TO THE OPERATING PRINCIPLES OF 41-06 DO YOU TRACE THE DATA FLOW THROUGH LOGIC DIAGRAMS OTHER TYPE OF REGISTERS 91-05 DO YOU TRACE THE DATA FLOW THROUGH LOGIC DIAGRAMS TO LOGIC STHBOLS OF STORAGE REFER TO SHIFT REGISTERS
REFER TO LOGIC SYMBOLS OF SHIFT ON ANDDE COOLING PINS KS ON HEATER LEADS
KS ON RESONANT CAVITIES
KS ON CATHODES
KS ON MAGNETS
R TO STORAGE REGISTERS SHIFT REGISTERS ANODES PCT MBRS RESPONDING OYES' BY SELECTED GRPS RAVELING-WAVE TUBES ATTENUATORS ĕ 07-TSK TASKS TASKS TASKS PERFORM TASKS TASKS PERFORM TASKS PERFORM TASKS 91-04 DO YOU USE OR REFER REFER PERCENT MEMBERS PERFORMING PERFORM PERFORM PEHFORM PERFORM 8 80 SHIFT REGISTERS BATTERIES 100 100 100 700 00 400 100 CIRCULATORS REGISTERS REGISTERS SOLATORS CAVITIES 00 00 00 00 00 DIODES P3-68 P1102 P3-69 61-03 91-02 10-10 21107 61116 66014 10114 P1105 41112 01113 61115 1108 0011 P1103 41111

GPSM4C PAGE 40

SHIFT REGISTER AFTER A SPECIFIED NUMBHAVE PASSED 14-01 DO YOU WORK WITH DIGITAL COUNTER 25-01 DO YOU WORK WITH DIGITAL COUNTER 25-02 DO YOU USE OR REFER TO DELAY LIN 92-03 DO YOU USE OR REFER TO MAGNETIC 92-04 DO YOU USE OR REFER TO MAGNETIC	077	227	228	229	230	231	5Pc	233	234	5 P.C.	236	
92-01 DASSEN WORK WITH DIGITAL COUNTERS, REGISTERS, STORAGE DEVICES IN YOUR PRESENT JOB 92-02 DO YOU USE OR REFER TO DELAY LINES 92-03 DO YOU USE OR REFER TO MAGNETIC CORES 92-04 DO YOU USE OR REFER TO MAGNETIC DRUMS 92-04 DO YOU USE OR REFER TO MAGNETIC DRUMS 92-04 DO YOU USE OR REFER TO MAGNETIC DRUMS	•	0	00	•	•	•	o	02	=	~	•	
Q2-02 DO YOU USE OR REFER TO DELAY LIN Q2-03 DO YOU USE OR REFER TO MAGNETIC Q2-04 DO YOU USE OR REFER TO MAGNETIC	41	0	=	=	2	•	20	02	33	35	0	
92-04 DO YOU USE OR REFER TO MAGNETIC	33	0	•	•	•	2	10	20	•		0	20,400
02-04 DO YOU USE OR REFER TO MACNETIC	•	0	1	1	•	•	0	20	22	5.4		STUKAGE DEVICES
The state of the s	•	0	1	1	•	۰ م	0	50	•	•	0	
25.5	• •	00	•	,	٠,	~ ~	90	20	==	22	00	
41123 42-07 DO YOU USE OR REFER TO WORD CAPACITY OF MEMORY	•	0	2	•	٥	9	0	0	22	5.7	0	
0124 02-08 DO YOU USE OF REFER TO VOLATILITY OF MEMORY SYSTEMS	9	0	•	1	c	9	c	a	11	1.2	0	
42-09 DO YOU USE OR REFER TO LOGIC SYMBOL OF DELAY		0	, ,	,	•	2		20	•		0	
93-01 IN YOUR PRESENT JOB, DO YOU WORK WIT	•	0	•	•	•	•	0	02	3.6	-		
CONVERTERS. OR BINARY-TO-DECIMAL READOUT CONVERTERS	of the same and the same and and the same an				-						-	DIGITAL
9	9	0	\$	7	0	•	0	0	=	13	0	ANALOG
DIGITAL-TO-AMALOG (D/A) CONVERTERS FOR GIVEN INPUT												CONVE
GENERAL RULE	•	0	•	1	0	2	0	0	=	7	0	
COUNT IN ELECTROMECHANICAL DIGITAL-TO-ANALOG (D/A)							-	-	-			-
NG THE DENOMINATIONS OF	Ĕ											
91129 93-04 DO YOU COMPUTE ANALOG VOLTAGES FOR GIVEN BINARY	•	0	S	1	0	us.	0	0	=	~	0	
ION TASKS ON VARIABLE	TIME 8	0	1	1	•	\$	0	02	=	71	0	
ANALUS-10-DISITAL (A/D) CONVENTEN CINCUITS	4	0	4		1	9	•	90	-	1.2	0	-
ANALOG-TO-DIGITAL (A/D) CONVERTER CIRCUITS												
61132 93-07 DO YOU PERFORM COMPARE FUNCTION TASKS ON VARIABLE Time analog-To-Digital (A/D) CONVERTER CIRCUITS	•	0	^	^	•	Δ	0	20	=	~	0	
FUNCTION		0	1	1	•	s	0	20	=	~	0	
PERFORM DON'T RENEMBER WALLEN	•	0	•	•	•	•	0	20	11		0	
CINCUITS	Act and convenience and convenience		P					i,				
CONVERTERS .	•	0	^	1	•	•	a	02	2	•	•	
91136 93-11 DO YOU USE OR REFER TO HOLD FUNCTION OF A/D	0	0	1	1	9	2	a	02	11	•	0	-
CONVERTERS U1137 93-12 DO YOU USE OF REFER TO COMPARE FUNCTION OF A/D	•	•	^	^	•	s	0	0.2	-	•	0	
CONVERTERS	The second secon											
STITES 43-13 DO TOU USE OR REFER TO DIGITAL FUNCTION OF A/D	•	0	-	,	•	•	0	20	=	7	0	
41139 63-19 DO YOU PERFORM ANY TASKS ON MECHANICAL ANALOG-TO-	•	0	5	•	•	•	a	50	=	13	0	

GPSH4C PAGE 41

DY-15K	3PC 226	227 2	SPC SPC 228 229	C 5PC	231	232	233	35	235	236 236	
	8	0	3	•	٦	a	٥	•	0	100 PH	PHANTASTRONS
RILA! RZ-DI IN YOUR PRESENT JOB DO YOU WORK WITH SCHMITT TRIGGER	17	0	- 01	9 11	=	10	0	•	0	100	
CIRCUITS	•	•		•	•	10	٥	•	0	100	SCHM1TT
SCHEMATIC DIAGRAMS					•			,		T CO	TRIGGERS
	4	1	21.2	22	1	9	2	22	24	1	
. A .	,	:		•		?					CABLE
O YOU FABRICATE COAXIAL CABLES	9.5	•				•	0	22	52	1	TOUTON
SII46 SI-01 IN YOUR PRESENT JOB DO YOU PERFORM ANY TASKS ON	•	0	26 2	20 44	32	0	9	22		0	-
VISUAL READOUT SYSTEMS SII47 SI-02 DO YOU PERFORM ANY TASKS ON NIXIE LIGHTS OR NIXIE	0	0	2	2 0	•	a	0	0	0	O INP	INPUT/OUTPUT DEVICES
LIGHT DECODER SYSTEMS S1148 S1-03 DO YOU ANALYZE NIXIE LIGHT DECODER SYSTEMS USING	0	0	7	2 0	3	a	0	0	•	0	
SOOLEAN ALGEBRA	0	0	2	2 0	-	a	0	•	0	100 PHO	PHOTO SENSITIVE
ž	42	-	97	3 25		30	20	•	0		ICES
S3-02 DO YOU MEASURE EXCITATION FREQUENCIES	•	0	15	1 25		20	02	•	0	001	
S3-03 DO TOU MEASURE VOLTAGE-CURRENT P	•	0		9 25		20	2	• •	0 0	001	
S3-04 DO YOU USE OF REFER TO EXCITATION	•	0	5	1 25	•	70	2	•	0	200	(S
SIIS4 S3-05 DO YOU USE OR REFER TO VOLTAGE-CURRENT PHASE	00	0	-	52		0,	2			9	TIU
SIISS SE-06 DO YOU USE SERVOS IN CONJUNCTION WITH CHOPPER	33	0	1 91	3 25	•	50	02	0	0		S
	13		15	11 25	S	20	02	•	0	001	NOI.
SIIS7 53-08 DO YOU USE ERROR SIGNAL DEVICES IN CONJUNCTION WITH	52	23	1 51	11 25	5	20	20	•	0	100	HOPI
CHOPPER CIRCUIT OFERATION	25	1.5	15.	11 25	5	20	02	•	0	100	IΛ
CHOPPER CIRCUIT OPERATION					-		1	1	1	1	
ES YOUR !	0	0	-	•	0	0	0	0	0	0	
TILEG TI-02 DO TOU INSPECT INFRARED SYSTEMS	0	0	0		0	0	0	0	0	0	
TI-03 DO YOU CLEAN INFRARED SYSTEMS	0	0	0			0	0	0	0	O INF	INFRARED -
11-04 00 400	0	0	0			٥	0 (.	0 0	o c	
	00	0	00	00	90	ac	00	00	00	00	
מושבר בשומו אואר למשבר וחום מו			,			2					
TITES TI-OT DO YOU TROUBLESHOOT HAJOR ASSEMBLIES OF INFRARED	0	0	0	0	0	0	0	0	0	0	
TILLS TI-GE DO YOU TROUBLESHOOT DOWN TO INFRARED SYSTEM	0	0	0	0	0 0	0	0	0	0	0	
	c	c	c		0		0	0	0	0	-
	,	,	,			2					
TIISB TI-ID DO YOU REMOVE OR REPLACE INFRARED SYSTEM	0	0	0	0	0	0	0	0	0	0	

SPSH4C PAGE 42

TASK GROUP SUMMARY PERCENT MEMBERS PERFORMING

X51-X0	120	227	228 2	229 230	162 0	1 232	2 233	3 234	1 235	236	-
USE OR REFER TO FAR REGION	•	0	0		0		0			٥	
TI-12 DO YOU USE OR REFER TO INTERN	0	0	0	0	0	0	0	0	0	0	
TI-13 DO YOU USE OR REFER TO	0	0	0	•	0	0	0		-	0	
DO TOU USE OR REFER TO MICRON	0	0	~	~	0	0	3			0	
TI-IS DO TOU USE ON REFER TO GRAT B	0	0	2	2	0	0	0		-	0	
TI-IS DO TOU USE ON REFER TO BLACK	0		~	~	0		0			0	
DO TOU USE ON REFER TO ABSORP	0	•	2	7	0	0	0		1	0	-
DO TOU USE ON REPER TO SCATTERIN	0	•	~	~		0				0	
TI-IP DO YOU USE OR REFER TO	0	0	~	~	a	0	0			0	
TI-20 DO YOU PERFORM TASKS ON	0	0	0	0	0	0	0			0	
TI-21 DO TOU PERFORM TASKS ON	0	•	0	0						0	
TI-22 DO YOU PERFORM TASKS ON ERECTOR	0	0	0	0	0	0				0	
TOU PERFORM TASKS ON OCULAR L	0	•	0	0						0	
YOU PERFORM TASKS ON CORRECT	٥	0	0	0		٥				0	-
DO YOU PERFORM TASKS ON FILTE	0	•				0				0	
DO YOU PERFORM TASKS	0	0	0	a	-	0		-		0	-
DO YOU PERFORM TASKS ON PLANE HIRE	•	0								•	
DOES YOUR PRESSNT JOR INVOLVE ANY	0	0	-	-		0				-	
							,				
12-02 DO YOU INSPECT LASER SYSTEMS	0	0	2	2	0	0	6		-	0	-
	٥	0									
TILET TZ-04 DO YOU OPERATE LASER SYSTEMS	0	0	~	~		0		-	-	0	
12-05 00	•	•	. ~	. ~			, ,			•	LASERS
TII 91 72-04 DC YOU TROUBLESHOOT WIRE CONNECTIONS OF	0	0	~	. ~		0	-	0	0	0	
LASER SYSTEMS											
TII92 T2-07 DO YOU TROUBLESHOOT MAJOR ASSEMBLIES OF LASER	•	•	7	~	0		0	0	0	0	
SYSTEMS	-	c									
SYSTEMS	•	,	,	•		,				•	
12-09 DO YOU REMOVE OR REPLACE MAJOR ASSEMBLIES OF LASER	0	0	~	~	0	0	0	0	0	0	
SYSTEMS											
TITES TE-TO DO TOU REMOVE ON REPLACE COMPONENT PARTS OF LASER	•	•	0	0	0	0	0	0	0	0	
SYSTEMS 12-11 Do You Use OF Street to ANGETRONE 141	•	0									-
YOU USE OR REFER TO STEPTED E											
12-13 DO YOU USE OR BEFER TO CROUND STATE	0	0			-	0	1		-	0	-
DO YOU USE OR REFER TO EXCITED	0										
12-15 DO YOU USE OR REFER TO PACKET O	0	0		-	-	0		1		•	-
72-16 DO YOU USE OR REPER TO PHOTONS	0	0								•	
12-17 DO TOU USE OR REFER TO	0	0	5	1		-				0	-
12-18 DO YOU USE OR REFER TO STINUL	•	•	-			•				•	
DO YOU USE OR REFER TO COMEREN	0	0	1			0				9	
TOU USE OF REFER TO INVERSION LE	•	•	0							0	
DO YOU USE OF REFER TO HONDCHROMA	0	٥	3		0	0		0	0	0	
12-22 DO YOU MORK WITH ACTIVE MATER	٥	0	a							0	
DO TOU WORK MITH PUMPING SOUR	0	4							-		
	,	•	0			0	0			0	

DISPLAY TUBES PROGRAMMING 00000 0 0 236 0 00000 0000000000000 235 235 0000000 7 234 0000000 5525 -77 233 020220 000000000 8 2 2 8 3 9 3 0 5°C 000000000 9000 9 20 9 성상 검증 함은 5PC 231 00000000 2 2 2 2 2 2 3 2 --3Pc a 00000000 3 0 0000000000000 3 35 2.5 GPSM4C PAGE 5PC 00000000 23 38 42 -2222 000000000 7 30 0 0 0 77 -5PC 227 00000000 0 : 0000000000000 = 0000000 63 0 15 7 32 22 23 T1227 T3-06 DO YOU PERFORM TASKS THAT HAKE IT NECESSARY TO NAME
T1227 T3-06 DO YOU PERFORM TASKS THAT HAKE IT NECESSARY TO NAME
T1228 T3-09 DO YOU PERFORM TASKS THAT HAKE IT NECESSARY TO NAME
T1229 T3-10 DO YOU PERFORM TASKS ON WRITE GUNS
T1230 T3-11 DO YOU PERFORM TASKS ON MRTE GUNS
T1231 T3-12 DO YOU PERFORM TASKS ON MRTE GUNS
T1231 T3-13 DO YOU PERFORM TASKS ON ERSE GUNS
T1232 T3-13 DO YOU PERFORM TASKS ON ERSE GUNS
T1233 T3-14 DO YOU PERFORM TASKS ON ERSE GUNS
T1233 T3-14 DO YOU PERFORM TASKS ON ERSE GUNS
T1233 T3-14 DO YOU PERFORM TASKS ON STORAGE GRIDS
U1234 U1-01 IN YOUR PRESENT JOB DO YOU PERFORM ANY PROGRAMHING YOU WORK WITH GALLIUM ARSENIDE TOUR PRESENT JOB DO YOU WORK WITH DISPLAY TUBES, DIRECT VIEW STORAGE (DVST) OR MULTIPLE MODE TUBES (MMST) R TO DECINAL SYSTEMS
R TO PROGRAMS
R TO B-4-2-1 SYSTEMS
R TO B-4-2-1 SYSTEMS
R TO B-4-2-1 SYSTEMS
R TO BINARY SYSTEMS
R TO DATA WORDS
R TO ADDRESS WORDS
R TO MY OR WORDS
R TO MY OR WORDS
R S ON SINGLE LEVEL PROGRAMMING WITH HALF SILVERED 1928 REFLECTIVE YOU REHOVE OF REPLACE DUST OR MUST TUBES 0 DO YOU ADJUST OR CALLBURE DYST OR MIST DO YOU OPERATE SYSTEMS THAT CONTAIN DYST DO YOU TROUBLESHOOT DYST OR MMST WORK WITH ARGON WORK WITH NEODYHIUM IN CLASS HELICAL FLASHTUBES PCT MBMS RESPONDING TEST BY SELECTED GRPS CESIUM-HELIUM MORK WITH HELIUN-NEON MORK WITH KELIUN-XENON MORK WITH XENON MORK WITH CESIUM-HELIU 3-01 IN YOUR PRESENT JOB DO YOU WOT SUCH AS DIRECT VIEW STORAGE (DVST) STORAGE TUBES (MMST) 3-02 DO YOU INSPECT DVST OR MMST 3-03 DO YOU CLEAN DVST OR MMST 3-04 DO YOU ADJUST OR CALIBRATE DVS 3-05 DO YOU OPERATE SYSTEMS THAT C REFER PERCENT MEMBERS PERFORMING 300 YOU 20 33333 9 00 188085 188085 124 DO 127 DO 129 DO 131 DO 00 13-07 00 CIRCUIT 355 12-30 12-33 13-02 3-03 3-04 13-05 13-06 01-10 ---12-32 10-10 12-31 20-10 1212 11221 11225 11224 U1239 01240 01235 20210 01243

- 111

SPSH4C PAGE

= 0 SPC SPC SPC 231 232 233 000000 0 0 0 90000 a 3PC 9000 a d a 25. 228 SPC 227 00000 0 0 0 0 0 UI256 UZ-02 DO YOU USE LOGARITHNS TO COMPUTE DUTPUT POWER IN DECIBELS
UI257 UZ-03 DO YOU USE LOGARITHNS TO COMPUTE ATTENUATION IN DECIBELS
UI258 UZ-04 DUMMY TASK TO IDENTIFY INCUMBENTS WHO PERFORMED NO TASKS U1249 U1-16 DO YOU PERFORM TASKS ON INPUT DEVICES
U1250 U1-17 DO YOU PERFORM TASKS ON STORAGE DEVICES
U1251 U1-18 DO YOU PERFORM TASKS ON ARITHMETIC SECTIONS
U1252 U1-19 DO YOU PERFORM TASKS ON CONTROL SECTIONS
U1253 U1-20 DO YOU PERFORM TASKS ON OUTPUT DEVICES
U1254 U1-21 DO YOU PERFORM TASKS ON POWER SUPPLIES
U1255 U1-21 DO YOU PERFORM TASKS ON POWER SUPPLIES
U1255 U2-01 DO YOU PERFORM TASKS ON POWER SUPPLIES
U1255 U2-01 DO YOU USE DECIBELS TO EXPRESS AMPLIFICATION AND DY-15K PERCENT MEMBERS PERFORMING

25.1		
300		
5		

能			
-			
2			
90			
-5			

23¢

0

*

DB AND POWER RATIOS

100



AD-A052 132

AIR FORCE OCCUPATIONAL MEASUREMENT CENTER LACKLAND A--ETC F/G 5/9 WEAPONS CONTROL SYSTEMS CAREER LADDER, AFSC 321X2.(U) SEP 77 T J O'CONNOR, J M BARUCKY

UNCLASSIFIED

NL

3 OF 3 O52/32

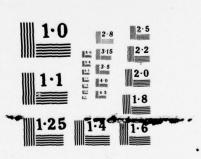




END DATE FILMED

1 -79

3 OF 3 ADA 052 | 32



NATIONAL BUREAU OF STANDARDS

SUPPLEMENTARY

INFORMATION

Cornected

REPORT DOCUMENTATION	PAGE	READ INSTRUCTIONS BEFORE COMPLETING FORM
1. REPORT NUMBER	2. GOVT ACCESSION N	O. 3. RECIPIENT'S CATALOG NUMBER
AFPT 90-30X-3222	AUTOM	of the second
4. TITLE (and Subtitle) Weapons Control Systems Career La AFSC 321X2	D-A052 /3	5. TYPE OF REPORT & PERIOD COVERED Final April 1977 - June 1977 6. PERFORMING ORG. REPORT NUMBER
		o. PERFORMING ONS. REPORT NUMBER
7. AUTHOR(*) Thomas J. O'Connor Jerry M. Barucky		8. CONTRACT OR GRANT NUMBER(s)
9. PERFORMING ORGANIZATION NAME AND ADDRESS		10. PROGRAM ELEMENT, PROJECT, TASK AREA & WORK UNIT NUMBERS
Occupational Survey Branch USAF Occupational Measurement Cen Lackland AFB TX 78236	ter	N/A
11. CONTROLLING OFFICE NAME AND ADDRESS		12. REPORT DATE
		30 SEPT 1977
Same as Item 9		13. NUMBER OF PAGES
14. MONITORING AGENCY NAME & ADDRESS(If differen	nt from Controlling Office) 15. SECURITY CLASS. (of this report)
		INCLASCIPTED
		UNCLASSIFIED
		15e. DECLASSIFICATION/DOWNGRADING SCHEDULE
17. DISTRIBUTION STATEMENT (of the abstract entered	in Block 20, if different	from Report)
18. SUPPLEMENTARY NOTES		
19. KEY WORDS (Continue on reverse side if necessary as		
Electronic principles Basic electronics	Electronic Air Force	
Avionics	Teaching m	
Electronic equipment Electronic technicians	Training	
20. ABSTRACT (Continue on reverse side if necessary an	d identify by block number	or)
This report summarizes the results Electronic Principles Inventory to Control Systems personnel (AFSC 32	s of the admini	stration of the
	./	

DD 1 FORM 1473 EDITION OF 1 NOV 65 IS OBSOLETE

UNCLASSIFIED

O MOSTA STREET TO WILLIAMS SECURITY CLASSIFICATION OF THIS PAGE (When Data Entered)